

## Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.



RECEIVED  
JUL 25 1914  
U. S. Department of Agriculture

# AMERICAN POULTRY WORLD

JULY, 1914

Vol. V.

No. 9

INDUSTRY

PROGRESS

ECONOMY



AMERICAN POULTRY PUBLISHING COMPANY  
BUFFALO, N. Y., U. S. A.



# FRENCH'S POULTRY MUSTARD

The "Original Poultry Mustard" in America. Absolutely pure and prepared to produce most excellent results. Used and recommended by thousands of breeders, fanciers and practical poultrymen the world over.

## FEED IT DURING MOULTING PERIOD

It stimulates, it invigorates, it rebuilds lost and wasted tissues, it shortens the moulting period and starts the hen laying. A fair trial will convince you of its worth. **Don't accept substitutes.** Insist upon having **French's Poultry Mustard.** Buy it from your dealer or have us send it direct. Our 32-page booklet giving Mr. Ralph Allen's experiments in England together with other articles upon the subject of mustard and testimonials from prominent poultry raisers sent free for the asking. Write us today. Address

THE R. T. FRENCH CO.,

Dept. B,

ROCHESTER, N. Y.

## GOLDEN AND SILVER CAMPINES

Limited number of yearling breeders for sale. Now is the time to buy them right. Manhattan Farms, Geo. E. Noeth, Owner, Brighton, N. Y.

### Payne Bros. Rose Comb R. I. Reds

All eggs one-half price after June 1st. Catalogue free. Mention A. P. W.

PAYNE BROS., Box W, PORTLAND, CONN.

### S. C. BUFF ORPINGTONS

Variety leaders in two egg laying contests. Breeding and young stock for sale.

Cherry Lane Farm Co., O. Wilson, Mgr., Oak Hill, W. Va.

### S. C. WHITE LEGHORNS

Laying and breeding stock. 10 week old cockerels \$1.00.

MT. PLEASANT FARMS,

MT. POCONO, PA.

### CROSSLEY'S S. C. REDS

Look more promising than ever before. Some excellent stock for sale at hard time prices. Let us tell you about them.

J. H. CROSSLEY & SON, P. O. Box 77, MAGNOLIA, N. J.



### "F.P.C. Chick Manna"

A complete prepared food for little chicks, turkeys, etc. Introduced 1884. The first chick food on the market and recognized everywhere as the best. Brings chicks safely through critical first ten days. "Chicks like it and thrive on it." Ask your dealer for it.

Special Trial Offer by Parcel Post. Write today for our introductory offer to ship 1-lb., 5-lb., or a 15-lb. package, postpaid by mail. Send for free circulars of "F.P.C. Poultry Foods and Supplies."

F. P. Cassel & Son, No. A-4 Lansdale, Pa.

### S. C. WHITE LEGHORNS

3000 Birds To Sell

1,000 Pullets,	\$1.25 each
1,000 One year Hens,	1.25 "
1,000 Two year Hens,	1.00 "
100 Cocks,	1.00 "

Circular Free.

BELLA VISTA FARMS CO., -WEST KIMMSWICK, MO.

"On the Frisco" P. O. Address—Kimmswick, Mo.

Or Our Agents: Steinmesch Feed & Poultry Supply Co., 220 Market Street, St. Louis, Mo.



### PARKS BRED-TO-LAY

### Barred Plymouth Rocks

Eggs, Chicks and stock at reduced prices. Circular free. Catalogue a dime.

J. W. PARKS,

Box W, ALTOONA, PA.

## VINCENT'S BUFF ROCKS

Have proven their quality the past season by winning at Allentown, Hagerstown, Central Palace, N. Y., Philadelphia, Madison Square Garden, Scranton and other leading shows.

### LOOK UP THEIR WINNINGS

A choice lot of cocks, hens, cockerels and pullets for sale. Satisfaction guaranteed. Write for mating list.

JAMES H. VINCENT,

HAZELTON, PA.

## Golden and Silver Campine Eggs

### At Half Price After June Fifteenth

From America's champion Blue Ribbon Winners at Madison Square Garden, Boston and Baltimore. The Fashion Plate catalogue for Campine free.

E. F. DEAN,

WILLIAMSPORT, PA.

## Rhode Island Reds - - Rose and Single Comb EGGS HALF PRICE BABY CHICKS



As is usual we are offering our eggs after May 10th at half price, baby chicks half price after May 20th. Owing to the very late spring, (which is fully six weeks late), there will be more chickens raised in May, June, and July than ever before and this is an opportunity that you should take advantage of, if you want to by from the best Reds in the world. Our stock has won the leading prizes in Chicago, Indianapolis, New York Madison Square Garden, St. Louis, Kansas City, Cincinnati, Atlanta, Nashville, and many other prominent



shows. So send in your order to-day as all orders will be filled in rotation. All \$30 eggs, \$15 per 15; all \$20 eggs, \$10 per 15; all \$15 eggs, \$7.50 per 15; all \$10 eggs, \$5 per 15; all \$5 eggs, \$2.50 per 15. If you have not seen one of our mating lists, we will send you one free for the asking. This list of matings cannot be equalled by any breeder of this breed in the world. Our beautiful catalog of 64 pages, printed in three colors, and the finest ever put out by a Red Breeder, contains much valuable information on how to care for poultry. It will be sent for 20 cents in cash or stamps.

### BUSCHMANN-PIERCE RED FARMS

Office: 865 State Life Bldg.,

INDIANAPOLIS, IND.

FARMS: CARMEL, INDIANA

# S. and R. C. Rhode Island Reds and SILVER and GOLDEN CAMPINES

After a season of four months' showing at Grand Central Palace, Madison Square Garden, Pittsburgh, Baltimore, Hagerstown, Philadelphia and Allentown, we have a grand total of the following winnings:

47 FIRSTS

31 SECONDS

16 THIRDS

13 FOURTHS

6 FIFTHS

Orders for stock and hatching eggs from these winners now being booked. Write today for free mating list.

## EGGS NOW HALF PRICE

## SCHENLEY HEIGHTS POULTRY FARM

C. F. Rankin, Prop.,

1202 Commonwealth Bldg., Pittsburgh, Pa.



# AMERICAN POULTRY WORLD

Published the First of Each Month by the  
AMERICAN POULTRY PUBLISHING  
COMPANY

158 Pearl St., BUFFALO, N. Y.

President . . . . GRANT M. CURTIS  
Vice-President . . . . A. O. SCHILLING  
Secretary-Treasurer . . . . WM. C. DENNY

## SUBSCRIPTIONS

Fifty cents per year in advance. Five cents per copy. Ten cents per back number.  
FOREIGN, one dollar per year. Canada seventy-five cents. Ten cents per copy.  
Subscriptions can begin with any month.  
Write your name and post office address plainly. If your Journal does not reach you promptly each month, kindly notify us.  
When you request change of address give the old as well as the new address.

## EXPIRATIONS AND RENEWALS

The AMERICAN POULTRY WORLD is discontinued at the completion of the subscription term by order of the postal authorities. This notice will be marked with a blue X when your subscription has expired. We solicit a prompt renewal. Please do not delay.

## 45,000 COPIES PER MONTH

It is positively guaranteed that during the year ending April, 1914, the AMERICAN POULTRY WORLD will circulate an average of forty-five thousand (45,000) copies per month. All advertising contracts are based on this circulation.

## ADVERTISERS GUARANTEED

We guarantee our subscribers against loss due to fraudulent misrepresentation in any display advertisement appearing in the AMERICAN POULTRY WORLD, providing the subscriber when ordering the fowls or merchandise, states that the advertisement was seen in the AMERICAN POULTRY WORLD, and places the order during the month or months in which the advertisement appears in our columns and promptly notifies us of the fraudulent misrepresentation of the advertiser, giving full particulars.

AMERICAN POULTRY PUBLISHING COMPANY

## Advertising Rates Made Known on Application

Entered at postoffice, Buffalo, N.Y., as second class mail matter

# CONTENTS, JULY, 1914

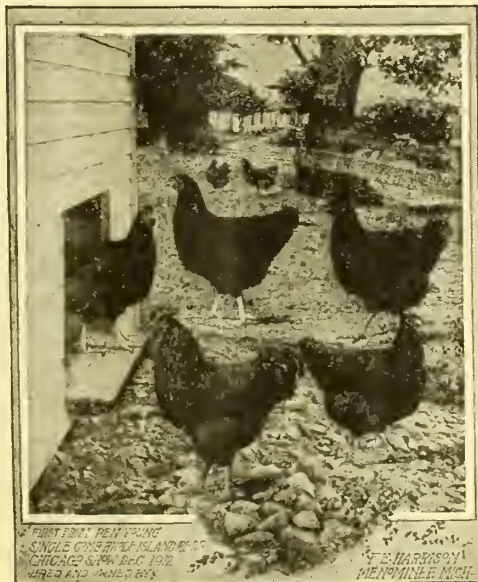
FRONTISPIECE . . . . .	Pekin Ducks	
THE PEKIN, A DUCK FOR FANCIER OR MARKET GROWER . . . . .	A. C. Bouck	685
IMPORTING EGGS FOR HATCHING . . . . .	W. W. Graves	686
THE S. C. BROWN LEGHORN . . . . .	F. G. Cook	687
"FALSE AND MISLEADING IMPRESSIONS" . . . . .		688
CARE AND MANAGEMENT OF GROWING CHICKS, W. A. Wolford . . . . .		690
SUCCESSFUL MARKETING OF EGGS BY PARCEL POST . . . . .		691
ENVIRONMENT THE DETERMINING FACTOR IN PRODUCTION . . . . .	H. R. Lewis	692
EDITORIALS . . . . .		693
Poultry Crop is short this season—What should be done. Golden and Silver Campine book to be published this fall. It is believed that Chicago next month will break all past records in A. P. A. attendance. No later developments for public consumption, in the United Poultry Farms matter. W. O. Chase is trying to settle. Campaign to "Swat the Rooster".		
EDITORIAL NOTES AND COMMENT . . . . .	Wm. C. Denny	704
GOVERNMENT WORK FOR POULTRY . . . . .	H. W. Jackson	709
EVERYBODY'S COLUMN . . . . .		725
NATIONAL EGG LAYING CONTEST . . . . .		726
POULTRY WORLD AFFAIRS . . . . .		728
LOCAL ASSOCIATIONS . . . . .		731
SPECIALTY CLUBS . . . . .		733
POULTRY SHOW DATES . . . . .		735
QUESTIONS AND ANSWERS . . . . .		737
CLASSIFIED ADVERTISEMENTS . . . . .		740
INDEX TO ADVERTISERS . . . . .		743

## 45,000 FOR JULY, 1914

E. D. Corson, Secretary-Treasurer of the Corson Manufacturing Co., printers and binders, being first duly sworn, states that that company has a contract for and is printing and binding forty-five thousand (45,000) copies of the July, 1914, number of the AMERICAN POULTRY WORLD.

GEORGE E. FITZSIMMONS, Notary Public.

# F. E. Harrison's Champion Single Comb Rhode Island Reds



Have for years demonstrated that they are the one strain that stands out ahead of all others.

At Chicago, 1913-14, "Royal Reds" won in the largest class ever shown, forty-nine exhibitors showing a total of 270 birds and in the largest class of cockerels ever shown in America, (106), as follows:— 1st and 4th cock; 2nd and 5th hen; 1st and 5th cockerel; 1st, 2nd, 3rd and 4th pullet; 1st and 3rd old pen and 1st and 5th young pen; every color special; every shape special; every championship; elegant watch offered by the Association for the best display and the Western Rhode Island Red Club of America Cup offered by the Club, both Rose and Single Combs competing.

**Note This:** I am the only exhibitor that has won in all six classes in one showing. Twice have I accomplished this feat.

Twice have "Royal Reds" exhibited personally by me won 87 points on best display at the Great Coliseum Show of Chicago. No other exhibitor has ever won this number of points before. Therefore, "Royal Reds" have the distinction of on two different occasions winning the greatest number of points ever given at Chicago.

**More facts of this world's greatest show of Chicago, are as follows:** At Chicago I have won twice as many first prizes on Old Pens as all other exhibitors combined.

Twice as many first prizes on young pens as any other competitor.

Twice as many first prizes on cock birds as any competitor, and more points on cock birds at the last two shows than all other exhibitors combined.

I have won more places on cockerels at Chicago the past four years than any other competitor, and hold the world's record for winning 1st Cockerel in the largest class ever shown in America.

**Very Important:** I have won more points on males (Cockerel and Cocks) on hens pullets and pens, at the last two Chicago Shows than any other competitor. Therefore "Royal Reds" outclass all others in winning the largest numbers on males, females and pens than any others.

**Note This:** I have won three times as many points on pullets at Chicago in the past two years than seventy-two competitors combined.

At Chicago, 1912-13, I won 1st, 3rd and 4th cock; 2nd and 3rd hen; 4th cockerel; 1st, 2nd and 3rd pullet; 1st and 2nd old pen and 1st young pen.

To think of a world's record is to think "Royal Reds."

I have every first prize (eight in number) winning males from the last two Chicago Shows. My egg offer is the best opportunity in all America to start in Single Comb Reds.

2000 head of cocks, cockerels, hens and pullets, trios and pens for sale, rich in blood of these Chicago winners. Catalogue free, describing best pens ever put together.

F. E. HARRISON,

Box A.

MENOMINEE, MICH.



# LADIES' DRESSING TABLE

THIS LATEST STYLE DRESSING TABLE not only gives an added attractiveness to the dressing room, but gives additional pleasure to the ladies who use it. Those who have used it will never be without this splendid mirror dresser.

¶ This Dressing Table is most artistic. In style it cannot be improved; it is solid in appearance, built to stand the test of years; and every day you use it the better you will like it. It has five drawers, designed to hold your toilet articles. Center drawer is fitted with lock and key, and arranged so that it can be used for holding private correspondence, also a place for writing material, etc.



Latest Style Dressing Table. Finished in White Enamel or Quarter-Sawed Oak Beautifully matched; golden oak finish, hand rubbed. Table top, size 19 x 36—Swinging French plate bevel mirrors, size 16 x 24. Mention No. A 1936—Our Direct-From-Factory Price, \$14.87

¶ We also offer another slightly smarter, very attractive Dressing Table in White Enamel for a young girl's dressing room. It has 20 x 30 inch top—3 drawers; center one fitted with lock and key. French bevel plate swinging mirror, size 16 x 20. A very handsome piece of furniture for bed room or dressing room. "A place for all toilet articles". ¶ Mention No. B 2030. Our Direct-From-Factory Price, \$10.95

¶ Our third offer is a Dressing Table of unusual design; made of solid selected quarter-sawed oak, carefully matched, or birch mahogany. Top 20 x 40. Five drawers, three fitted with lock and key. Glass knobs, swinging side mirrors with invisible hinges, size 8 x 20. Stationary center mirror 14 x 24. The swinging side mirrors are very desirable for a dressing table, enabling you to view yourself at every angle, back and front. It is finished either in fumed oak or golden oak or mahogany, hand rubbed. A most beautiful piece of furniture. Mention No. A 2040—Our Direct-From-Factory Price, \$18.90.

## OUR DIRECT FROM FACTORY PRICES

No. A 1936 - Retail Store Price \$25 to \$30. Our Price \$14.87. No. B 2030 - Retail Store Price \$17 to \$20. Our Price \$10.95. No. A 2040 - Retail Store Price \$30 to \$40. Our Price \$18.90.

This Direct-From-Factory Price saves you the middlemen's profit, and as furniture is the most substantial and necessary part of the house equipment, when bought at the retail store it is a big item of expense. All our furniture is hand finished, made of the best selected material—and well built. All finishes are treated with the best stain and varnish and other finishing material; and you will find the workmanship unsurpassed. Each piece of finished furniture is carefully inspected before shipment, insuring you absolutely nothing but the best.

Quantity production—No traveling salesman's expense—No middleman's profit—give our customers the advantages of a direct wholesale price, the lowest price that can be had—right from the factory door.

**Direct From Factory Co., 154 Terrace, Buffalo, N. Y.**  
 87 Barclay Street, New York City      11 No. Market Street, Chicago, Illinois



# YOUR KITCHEN WORK MADE EASY

*Pantry, Cupboard and Kitchen Table—all in a Single Piece of Furniture*

This Handsome, Practical, Popular - Style Kitchen Cabinet Selling Elsewhere at \$25 to \$35, Saves About Half Your Money at

**OUR DIRECT FROM FACTORY PRICE \$14.93**

All-Metal Flour Bin,  
Sanitary and Self-clean-  
ing Flour Sifter.

Large Cupboard for  
Pots, Pans and Kettles;  
Removable Sliding Shelf.

Dust Proof Paneled  
Doors; Removable  
Kneading and Chopping  
Board.



Two Linen and Cut-  
lery Drawers.

Bread and Cake  
Drawer, Metal Lined;  
with Sliding Cover.

China Cabinet, White  
Enamelled Inside for  
Kitchen Ware.

Legs Fitted with Steel  
Sliding Casters.

Cabinet No. A-140, Crated Complete \$14.93  
Guaranteed as Described or Your Money Back

With this handsome, practical Cabinet in your home you do your kitchen work in almost half the time it takes without it. You can stop the tiresome plodding about gathering the things you use in preparing a meal. With this Cabinet you do not have to **walk for things—you reach for them.** This saves time and strength. It is a little kitchen in itself. All articles used in cooking and baking brought together in a compact space.

Thousands of thrifty American women are taking advantage of our extremely low Direct-From-Factory Price and providing themselves with useful articles for their homes. Their kitchens are cheerful, convenient places to work in. They are saving miles of steps and hours of time. Cooking and baking become a pleasure, and you can have one hour or more leisure time each day to enjoy yourself. Join the happy housewives who have a Direct-From-Factory Cabinet. A small investment of \$14.93—and look at the years of service it will give you.

This Cabinet is made throughout of carefully selected seasoned material—rubbed and polished golden finish. The inside of the china cabinet and the space below it have enamelled lining with smooth glazed surfaces, which can be washed with soap and water.

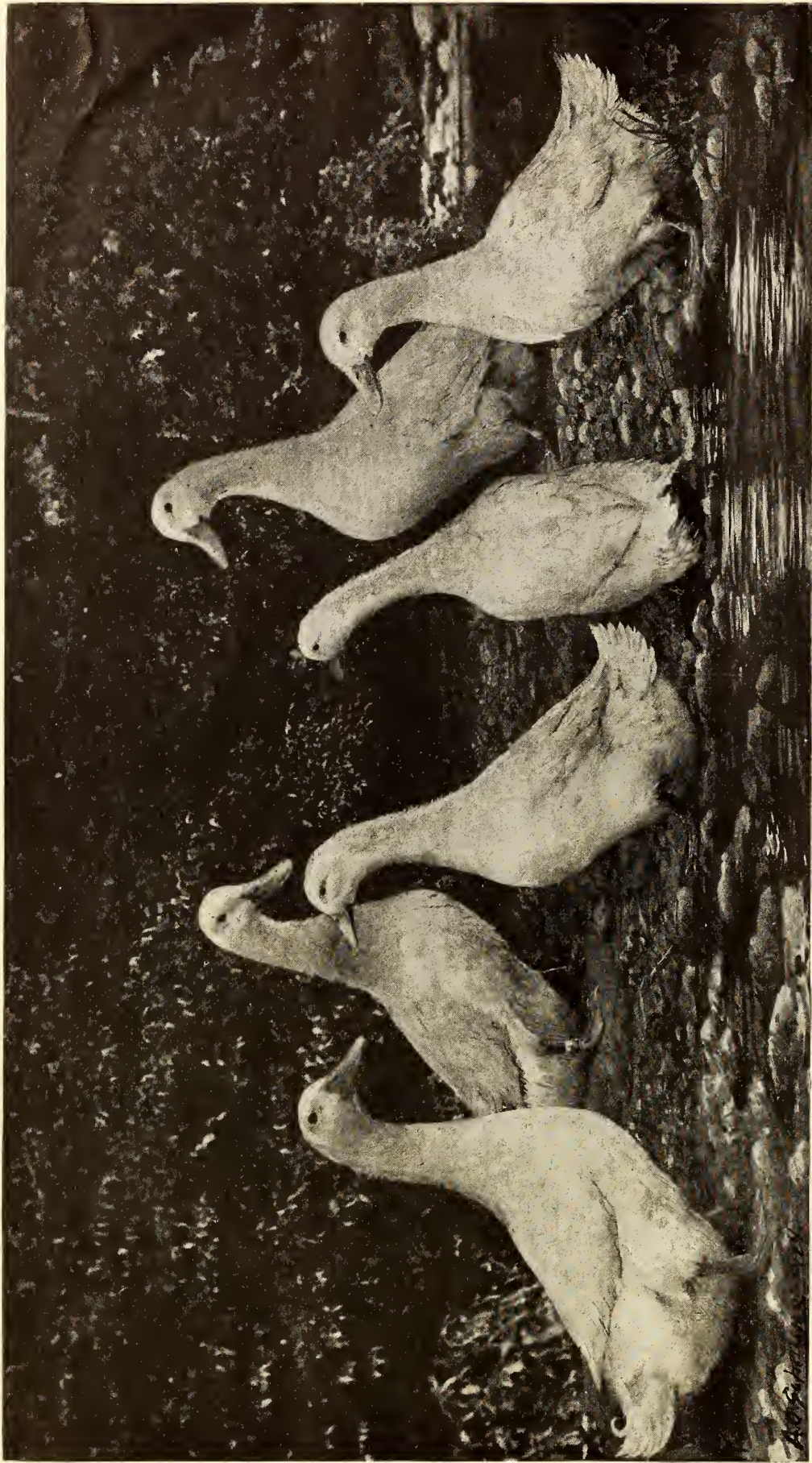
Height, 66 inches—Table 26x42. Legs fitted with steel sliding castors. Flour bin all metal, sanitary sifter, dust-proof, moisture-proof, always clean and wholesome. The roomy cupboard in the base provides ample room for pots, pans and kettles. The iron shelf is made to slide out like a drawer which brings the rear contents within easy reach. Two drawers for cutlery, utensils, linen, etc.

It is natural for you to ask why our price on this Cabinet is less than dealers ask for the same or similar style of Cabinet. Well, we save you the agent's and middleman's profits. The tremendous output of our factory makes a big reduction on the cost of production—and this Cabinet is made of better material and is far better constructed than any Kitchen Cabinet offered by dealers at near this price.

**Direct From Factory Co., 154 Terrace, Buffalo, N. Y.**

**87 Barclay St. New York City, 11 No. Market St., Chicago, Ill.**





STANDARD-BRED AMERICAN TYPE PEKIN DUCKS.  
ONE DRAKE AND FIVE DUCKS.

The Pekin duck is an old breed and has been known in America for many years, but not until about the year 1873 did breeders begin to grow them for market purposes. Since that time the market duck industry has developed and grown to large proportions. The Pekin was found to be the most suitable breed for this purpose, and breeders at once set out to improve their table qualities. The improved Pekin is the result of many years careful breeding and selection and embodies the qualities of the ideal market duck. With the development of these useful characteristics a uniform type was established that is now considered as standard. The perfect standard type for a breed of this kind should first of all present market or table qualities, with these the fancier may exert his efforts in perfecting profile, form and color, until the perfect show specimen is obtained. Good Pekins are fairly large birds and when in proper show condition, should be low set at stern. The body is carried rather erect at an angle of about 45 degrees from the horizontal. A well rounded full breast is one of the more important characteristics of a good Pekin. The body should be fairly long and well rounded in all parts. The above group represent the prevalent standard type of American Pekins and embodies the qualities of what a good Pekin should be.—A. O. Schilling.



# AMERICAN POULTRY WORLD

Vol. V

JULY, 1914

No. 9

COPYRIGHT, 1914, BY AMERICAN POULTRY PUBLISHING CO., BUFFALO, N. Y. ALL RIGHTS RESERVED

## THE PEKIN, A DUCK FOR FANCIER OR MARKET GROWER

THE KING OF MARKET DUCKS, ALSO UNSURPASSED AS A FANCIERS' DUCK. LARGE SIZE, HARDINESS, QUICK GROWTH, EARLY MATURITY, ATTRACTIVE CARCASS AND DELICATELY FLAVORED FLESH MAKE THEM THE FAVORITE WITH THE MARKET GROWER. THEIR BEAUTIFUL PLUMAGE AND WELL MODELED BODIES APPEAL TO THE FANCIER. MANY IMPROVEMENTS MADE IN COLOR AND TYPE IN LAST TEN YEARS

BY ARTHUR C. BOUCK,

Fernbrook Farm, Menands Rd., Albany, N. Y.



VERY few people realize the extent of the duck industry in America. There are many Pekin duck farms in the east, especially on Long Island and eastern Pennsylvania that market from fifteen to fifty thousand ducks each year.

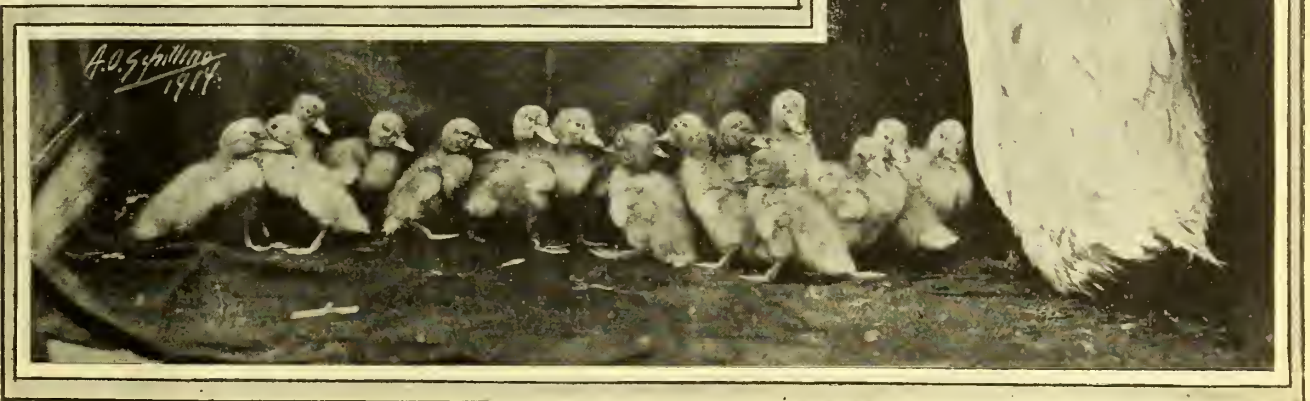
The raising of ducks for commercial purposes dates back to 1876, when a Long Islander named Quin started in a small way. He is said to have bred Pekins, but authorities differ on this point some claiming that the Pekin was not introduced until 1880 or four years later. In those days brooding equipment was very crude and we have heard it said that the young ducklings were allowed to huddle in a corner with an old cloth thrown lightly over them to retain natural heat. From that time on the industry grew very rapidly and men of means became interested in its possibilities and went about it in a systematic way. The early success of such growers as Messrs. Hallock and Wilcox interested others and each year found many new market plants in the embryo stage, some of which succeeded while others were forced to give up and seek other lines of industry.

### PEKINS FAVORITE WITH MARKET GROWERS

From time to time other varieties have been tried but the Pekins have earned the title of the king of market ducks on account of their large size, laying qualities, quick growth, early maturity, their attractive appearing carcasses free from dark pin feathers, combined with their delicate flavored meat. Besides this they are hardy possessing strong constitutions and are remarkably free from disease, but like any other fowl they must not be neglected or abused if one expects to succeed.

It is not necessary for Pekins to have water for swimming, as many suppose, in fact, they grow faster and fatten better with only plenty of water to drink. Ducks are not subject to the diseases common among chickens and as far as diseases go. A Pekin well hatched is about as good as raised. They make very rapid growth and are ready for market when seven to ten weeks old, and may be made to weigh from eight to twelve pounds to the pair at that age. Stale bread moistened with milk or water to which a quantity of coarse sharp sand is added is the ration we feed for the first three days at Fernbrook Farm. The water fountains must be deep enough to allow the youngsters to wash their eyes or they will have sore eyes which is caused by feed and dirt sticking to them.

(Continued on page 723)



This interesting picture of a Pekin Duck and her family was taken shortly after their arrival and before the little fellows had taken their first swim. The mother objected to posing for her picture and showed her displeasure by ruffling up her plumage to some extent, evidently fearing that some harm might befall her family. The little fellows however appear very much unconcerned and seem a bit unmindful of their mother's discomfiture.



# IMPORTING EGGS FOR HATCHING

SOME CONCLUSIONS BY AN EXPERIENCED POULTRY RAISER WHO MADE MANY IMPORTATIONS. FINALLY DECIDES TO TRY IMPORTING SETTING HENS WITH EGGS. BRINGS OVER TWO BUFF ORPINGTON HENS EACH COVERING FOURTEEN CORNISH EGGS. HATCHES FIFTEEN CHICKS, ONE WITH THREE LEGS. COOPS AND OTHER INTERESTING FEATURES OF TRIP DESCRIBED. EXPERIMENT CONSIDERED SUCCESSFUL

BY W. W. GRAVES, Jefferson City, Mo.



URSUA<sup>N</sup>T to your request, I take pleasure in reporting my experiences with imported eggs for hatching purposes.

During the season I imported at different times, and from different parties, 150 Indain Game eggs (Dark Cornish) from Southern England, and 90 Red Sussex eggs. Each lot I divided between hens and an incubator. None of them did well, but the hens did better than the incubator. My English friends claim that the hen is much better for stale eggs than the incubator, and in this I am convinced that they are correct.

## DISCOURAGING RESULTS

Out of the 150 Indian Game eggs I got 10 chicks, all coming from the eggs under hens. Out of the 90 Red Sussex eggs I got 16 chicks, 11 of which came from the hens and 5 from an incubator. It will be observed that the hatch in Indian Game is less than 7 per cent., and in Red Sussex about 17 per cent. Of the two breeds the Red Sussex did the better, although all did well. I never saw a hardier, thriftier bunch than the Red Sussex chicks. For an experiment I put three Barred Rocks, hatched the same day, and 12 of the Red Sussex, with the same hen, so that they got the same treatment. The Red Sussex have outstripped the Barred Rocks by a good deal, up to this time, and they are now some seven weeks old.

## WHY EXPERIMENT WAS MADE

You asked me how I came to make the experiment of setting two hens in England, and having them brought over. The failure to get a satisfactory hatch from imported eggs put me to thinking. I thought that I could detect that it was the fresher looking eggs that were hatching. In one instance I picked out 12 of the freshest appearing Red Sussex eggs, and put them and 3 Barred Rock eggs under one hen. I got 6 Sussex chicks and 3 Barred Rocks, being the ones I placed with the hen as above stated. This suggested to me that it was the staleness of the eggs rather than the jolts of transportation that prevented good results from imported eggs. To demonstrate that this was true, I arranged with Painter Bros. of Corfe Castle, Dorsetshire, England, to send me two hens on eggs. They breed Indian Games exclusively and I directed them to use their best eggs, but to try to

get two Buff Orpington hens as I thought they were safer for a test of this kind. Also instructed them as to the coop to be used for each hen.

## THE SHIPPING COOPS

The coops were made with two compartments, one (good and roomy) for the nest, and the other, somewhat longer for feeding and watering the hen. In the partition between the two compartments was a sliding door, which could be opened and thus allow the hen to go back on the nest of her own accord, after she was through feeding. The top was principally two doors on hinges, one over the nest compartment and the other over the feeding compartment.

After getting my order for the experiment, Painter Bros. mated a special pen of Indian Games from which to get the eggs for the two hens. Their farm is three miles from Corfe Castle, and it was my purpose to have the hens set on the Indian Game eggs at the farm, and sent from the farm, on the eggs, to Corfe Castle, and thence to Liverpool for transportation to me here.

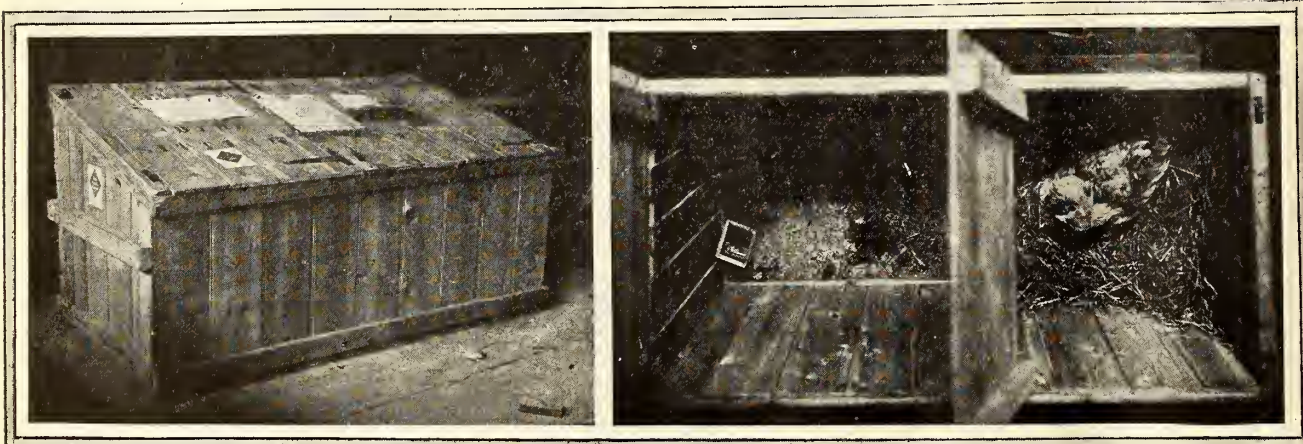
Mr. W. H. Richards, the Wells-Fargo & Company agent at Liverpool, who became much interested in the experiment, and Painter Bros. became apprehensive of rough handling from Corfe Castle to Liverpool, owing to the number of changes to be made on this railroad trip. They changed my program a little.

## PREPARING FOR SHIPMENT

The actual experiment was thus made. Not being able to get broody Buff Orpington hens, closer home, Painter Bros. transported two broody hens overland a distance of fifteen miles. They were put in their nests on "dummy" eggs, and after becoming settled well on the nests, the two coops were sent by rail from Corfe Castle to Liverpool on the morning of May 19th. At the same time Painter Bros. expressed the eggs to Mr. Richards. Each egg had the monogram of Painter Bros. stamped on the large end, so that any change could be detected. On May 20th the hens reached Liverpool and Mr. Richards placed 14 Indian Game eggs under each, and on the morning of May 21st they were placed aboard the S. S. Baltic for New York.

The "butcher" on the boat was the official attendant, having been given £1 by Mr. Richards for that purpose.

(Continued on page 722)



At the left of the illustration is shown the shipping coop in which one of the Buff Orpington setting hens made the trip from Dorsetshire, England, to Jefferson, Mo. On the right is a view of the interior of same coop. The strange appearance of the photograph is due to the fact that the picture was taken from above or in other words, looking down into the coop. It shows the hen setting in the nest covering the fourteen Cornish eggs, all of which arrived safely and from which nine chicks were hatched. For full particulars see the accompanying article.



# THE SINGLE COMB BROWN LEGHORN

AN EXPERIENCED BREEDER ADVANCES SOME STRONG ARGUMENTS IN BEHALF OF HIS FAVORITES. RECOMMENDS THEM TO BREEDERS IN THE SOUTH AND SOUTHWEST ESPECIALLY. CORRECT BREEDING PRESENTS PROBLEMS THAT FASCINATE THE FANCIER. BELIEVES DOUBLE MATING NECESSARY TO PRODUCE EXHIBITION SPECIMENS. SOME POINTS ON BREEDING THAT SHOULD BE REMEMBERED BY ALL INTERESTED IN THIS VARIETY. GREAT IMPROVEMENT SHOWN IN LAST FEW YEARS

BY F. G. COOK,

Supt., Grove Hill Poultry Yards, Waltham, Mass.



HAT there is a greatly increased demand for Brown Leghorns is very apparent. In the south and southwest they are extremely popular and the call for well bred S. C. Brown Leghorns from this section is very brisk. There are a number of old time fanciers of this variety in the south and I know that they are enjoying a very good trade on these birds. In addition to this

there are many new or younger fanciers who are annually securing first class stock from eastern and northern breeders to start new lines of blood, or to improve their own birds. Outside of the show end of the business, many of the southern poultrymen are breeding them for utility qualities alone. Their ability to produce a large number of eggs annually on a small amount of food, their special fitness for southern climes on account of their lack of weight and absence of surplus feathers, make the Leghorns an ideal bird for the south.

## POPULAR IN ALL SECTIONS

I note that many small breeders are selecting the browns in preference to the whites. The attractive plumage in both male and female appeal to any one with artistic qualities, and again they present a much neater appearance in the yards than do the whites. The extreme heat does not tend to promote the beauty of the White variety and again the heat is not conducive to a heavy indulgence in manual labor consequently the birds are apt to be somewhat neglected and a white fowl that is not white is very unattractive, therefore I see in the above a strong argument in favor of the S. C. Brown Leghorns as the coming breed for the south and southwest.

Not only in the south are the Browns becoming very popular, but in the middle west the number of fanciers of this variety are constantly increasing and at the last Chicago show, one of, if not the largest class of this variety ever brought together was shown. Brown Leghorns have been bred for many years by a number of eastern breeders and this certainly speaks well for the variety as they must possess most attractive qualities to remain favorites with the men who annually exhibit at Madison Square and Boston. Several fanciers on the Pacific coast are giving a great deal of attention to Browns, and we understand from several very successful breeders in that section that they are very satisfactory there, especially in California and Oregon.

## DOUBLE MATING NECESSARY

That the correct breeding of this variety to a high state of excellence is a problem cannot be denied, yet at the

same time you must remember that that which is most prized is hardest to get. To produce single comb Brown Leghorns of show quality at the present time it is absolutely necessary to double mate, that is, use one pen to produce exhibition males and another to produce exhibition females. Any disregard of this rule will only end in disappointment and it is foolish to attempt anything in that line as those who have tried have failed. Occasionally you hear a man state that he can produce show specimens by one mating. He may produce specimens that would win at some county fair, but let him take these birds to Boston, New York, or Chicago and let him compare them with the birds that Rogers, Burgott or Smith place ribbons on, and anyone will quickly note the difference. There is just one solution to single mating, and that is do not bother with it.

## ONE LINE FOR SMALL BREEDERS

Of course this is somewhat of a handicap to the small breeder who has sufficient room for one or two small pens; in this case let him select the line that he prefers and breed that alone. Some of the most successful breeders of Leghorns in the country breed but one line. In Brown Leghorns as in any variety, the watchword must be "study your birds." Register all birds on paper as well as in your mind, note each characteristic, look up the breeding of every bird you place in your pens, and above all note carefully how they breed. In mating select birds that are especially strong in any point where

the bird's mate is weak, and more than that, go back and consider how both birds are bred. Use a bird very carefully that is fair in some characteristic when his sire, dam and other ancestors were weak in this very point. Aim for a well balanced bird. Do not be carried away with excellence in any one part of the bird. You may be a crank on saddle striping or on under color or on ear lobes or on shank color, but remember that the Standard of Perfection calls for a bird per-



This picture shows the two hens and the chicks hatched after their long journey across sea and land. Three of the chicks are concealed behind the hen. The hen about which most of the chicks are gathered hatched nine and the other six. Each had fourteen eggs when leaving Liverpool. (See opposite page.)

fect in all parts and it is the law of nature to equalize, consequently a bird very superior in any one of the mentioned sections is apt to be correspondingly weak in several others, and the introduction of this blood indiscriminately means to get into your flock weaknesses that mean the loss of several years of work.

## SELECTING BREEDERS

In selecting our breeders in cockerel bred males and pullet bred females we use very best show specimens we possess in these lines and in selecting our cockerel bred females and pullet bred males we use specimens bred from our highest grade exhibition birds. I think that in

(Continued on page 721)



## "FALSE AND MISLEADING IMPRESSIONS"

A READER CRITICISES AN ARTICLE APPEARING IN AMERICAN POULTRY WORLD. ALSO TAKES AUTHOR TO TASK FOR SOME STATEMENTS MADE AND MAKES A FEW COMPARISONS OF HIS OWN, SOME OF WHICH WE BELIEVE ARE NOT WELL DRAWN. MR. MAPES MAKES REPLY AND BRINGS OUT SOME THINGS THAT WERE EVIDENTLY OVERLOOKED BY HIS CRITIC. READER SHOULD FIND PLENTY OF INTERESTING FOOD FOR THOUGHT

[EDITOR'S NOTE.—Following is a criticism by P. T. Lynch, Boston, Mass., of an article that appeared in the March issue of A. P. W. Also a reply by O. W. Mapes, author of the article under discussion. Many interesting points are brought out and as an exchange of views on any subject is always beneficial the reader should be the beneficiary in this instance. If there are others who feel as does Mr. Lynch or that some points have been overlooked in this discussion we will be pleased to hear from them.]



KINDLY permit me some space to correct the false and misleading impressions that are likely to be conveyed by Mr. Mapes' article in the March number of AMERICAN POULTRY WORLD. Here is the title and sub-title of the article.

### FIVE THOUSAND DOLLARS FROM EIGHTEEN HUNDRED HENS

**Herewith Is Given The Result of a Twelve Months Contest Between Eighteen Hundred Hens and a Representative Number of Cows. While The Profits From The Hens Exceeds That From The Cows By Over Three Thousand Dollars, They Also Require Less Labor. Hens Failed To Produce Properly During The Period Of High Prices, Greatly Reducing The Gross Income. Cows Average, \$160.00 Per Head—Fifty-Eight Hens Represent An Equal Income.**

Every statement in that head is glaringly misleading and if written by the editor I am sure it was done inadvertently, for my observation has been that the AMERICAN POULTRY WORLD has been the freest, of all the poultry journals, from those foolish fairy stories about poultry, which disgust the practical poultryman. But in that case it is the more desirable that the errors be corrected as soon as possible. In the first place "\$5,000 from 1800 hens" is naturally taken to be net profit from the birds, but Mr. Mapes in his article says that was the gross sales. He says the feed bills were "a little less than half the total sales," which would make the actual profit about \$2,500. This is a long way from "\$5,000 from 1800 hens."

So far Mr. Mapes, I presume is innocent, but I wish to make issue with him on the general tenor of his article, for I contend that his comparison of a "cow plant" of 11 milkers and a "poultry plant" of 1800 layers is grossly unfair. Please bear in mind that I do not doubt for a moment that there may be a greater profit from poultry than from cows for the same outlay of money, time and labor but Mr. Mapes has not made a fair case in any respect. First take the capital involved. To start his poultry plant he would want to buy 1800 layers which for any kind of good stock would cost \$1.25 each, or a total of \$2,250. Four feet square of housing per bird is the least he would need and with the shed type which is considered about the most economical of any he would need 450 feet of house, 16 feet deep. At the lowest this amount of housing would cost about \$900. Then he would want, even to raise only the 800 birds he says he added to his flock, at least 4 incubators of 250 egg capacity, which would cost about \$100, and at least 10 brooders costing another \$100. He would also need some kind of a brooder house, which would cost \$75 more. This makes a total of \$3,425.

Then take the "cow plant." Good average cows can be bought in my section at \$100 each and a house to keep them in can be built for about \$75. That makes a total of only \$1175 for the cows. The equipment would not be a fraction of what would be required for the poultry plant. In fact the outlay for nests, automatic grain feeders, dry mash feeders, drinking fountains and all other paraphernalia of a poultry plant would amount to a considerable sum. But even at the figures given the capital is three to one. Next to labor, any sort of good dairyman can milk 11 cows in a little over an hour and one-half. To be generous let us call it an hour and three-quarters, which would be three and one-half hours a day for the milking. The feeding would not average more than an hour a day and the cleaning another hour. That makes

a total of five and one-half hours a day for the work of caring for 11 cows.

Now will any one say that five and one-half hours a day would care for a poultry plant of 1800 layers. Why the thing is a joke. In fact I do not believe that any one man could possibly care for a plant of that size, especially during the breeding season, even if he worked 20 hours a day. Let us look for a moment at this breeding season work. For every 100 eggs put in the incubator a man is doing well to hatch out 70 chicks. An average of 10 of these will die during the first two or three months of their lives. That makes 60 left. Half these will be roosters, leaving 30 pullets. About 5 of these will be culls, leaving 25 laying pullets for every 100 eggs set. That means to raise 800 layers as Mr. Mapes says he did, he would have to incubate 3,200 eggs. With this number distributed over 13 weeks in March, April and May he would set about 250 a week, and would need 4 incubators of that size. At the end of three weeks the chicks would be hatching at the rate of 175 a week, at our average, and at the end of 13 weeks there would be 2,240 chicks to be cared for. To properly look out for all those chicks of different ages and requiring different treatment would require an immense amount of time, to say nothing of the work of looking after 1800 layers. As I have already said the comparison is a joke in whatever aspect it is regarded.—P. S. Lynch, Boston, Mass.

### MR. MAPES REPLY TO MR. LYNCH

Mr. Lynch is unfortunate in his choice of words. If he had said "the whole thing is a dream" instead of "the whole thing is a joke," I would have had no quarrel with him.

Readers will please bear in mind that I was not making an estimate on paper as Mr. Lynch is doing, but making a report of a year's operations actually accomplished. The whole thing resolved itself into a question of veracity. My work has not been done in a corner. Numerous college professors, editors, etc., visited my place during the year and went home and reported to the public their convictions that "Mapes is doing just what he claims to be doing." If Mr. Lynch still doubts, my latch string is always out for him.

There are two kinds of "dreams" you know. Joseph "dreamed a dream" that was followed by persistent endeavor until the world was forced to admit that there was some reality to it. Edison, Marconi, Wright and hosts of others have gone through the same experience.

Mr. Lynch must have been dreaming the other kind when he wrote the above. In no other way can we account for his figures in regard to the cost of outfit for the cows. It was no ordinary nap either that brought forth his dream of \$75 as cost of stable for eleven cows, but a Rip Van Winkle affair. When he went to sleep there were no milk inspectors from city health departments abroad in the land and any old hovel thatched with buckwheat straw would do for the shelter of cows. There could have been no silos in his dream and none of the modern improvements such as cement floors, swinging stanchions, ventilated stables, sun parlors, etc. His \$75 would hardly buy manure carrier and the horse hay-fork outfit, to say nothing of the hay barn in which to work it. And how about some land? Milk production in these days calls for lots of succulent feed and roughage. These cannot be well transported from a distance but must be produced on the farm where the cows are kept. His eleven hundred and seventy-five dollars will not buy enough land to furnish pasturage, soiling crops, hay, ensilage, etc., for eleven cows in most localities.

On the other hand hens need but little succulent feed and but little land. My poultry buildings for 1800 hens



occupy less than an acre of land and half an acre of land produces an ample supply of green feed for them. I confess to having "waking dreams" sometimes in connection with my work with poultry. I have kept "pegging away" until some of them have been transformed into realities. Mr. Lynch says, "I do not believe that any one man could possibly care for a plant of that size, especially during the breeding season, even if he worked 20 hours a day." Possibly not with such an equipment as he is familiar with. I have nine of the combination brooding and laying houses, sometimes called Orange County Poultry Houses, eight stocked with about 1800 layers and the other with 750 chicks five weeks old.

The day before this is being written, June 2nd, I personally took entire charge of them, and my forenoon's work was done by 7 o'clock and my afternoon's work did not begin until 4 P. M. I did not get out of bed until after the clock struck five and took about a half hour for a 6 o'clock breakfast. The only thing done in connection with the poultry work between 7 A. M. and 4 P. M., was to drive to the station with a shipment of eggs.

Of course I use labor saving methods. I buy my feed ready mixed and delivered in my feed room. Water is piped to each house so that the turning of a faucet fills the fountains. The day's supply of mixed grains is given the hens all at once, in the morning. The chicks are raised on a chick feed that requires no skill and little time. It is in the form of dry mash combined with some cracked grains. I simply place enough of it in shallow boxes so that they will about "lick the platter" before next feeding time. Both sour milk and water are always before them.

A little of the same chick feed made into a wet mash with sour milk is greatly relished by the chicks and hurries growth somewhat, but is not so regularly supplied.

I use a good brooding outfit that does not need cleaning frequently. My chicks are now five weeks old and the only cleaning the brooder room has yet had has been to throw in a fresh bucket of barn sweepings occasionally. They are still dry and sanitary but will soon be replaced with shavings. Mangels saved over from last year's crop are given them for green feed. Of this flock of 750, with this kind of care, only 2 per cent. have been lost at this writing, the cockerels began to crow at 27 days old and a pair picked up on the day they were one month old tipped the scales at 22 oz.

I predict that the time is not distant when we will care for our hens with even less labor than the above. The poultry feed of the future may be a balanced ration in the form of a dry mash. This can be given in quantities sufficient to last a week or more at a time. The only daily task will be to pick up the eggs and supply fresh water in some way.

#### EXPERIMENT WITH OLD HENS

In AMERICAN POULTRY WORLD of August last, and in my lecture before Connecticut Poultry Association at Storrs last July, I indulged in some theorizing as to the egg laying function corresponding in some degree to the function of Menstruation in Mammals. If the theory is correct a five year old hen should lay as well as a two year old, just as a ten year old cow will bear a calf as frequently as a young cow.

The writer has been experimenting for years with different formulas in an endeavor to find a combination of nutrients that will supply all a hen needs, without any surplus to clog up the system or be voided in the droppings. An experimental pen of thirteen old hens, just starting on their seventh year, was deprived of all food

(Continued on page 720)



The record made by Jos. Russell, Toronto, Canada, during the past winter with his White Wyandottes was nothing short of marvelous. At the Greater Buffalo Show his winnings were first and second cockerel and first pullet, while at Boston a few months later his birds made the phenomenal record of winning every first prize but one in one of the best classes of White Wyandottes ever brought together at this show. The above picture represents first cockerel and first pullet at the Greater Buffalo Show held November, 1913. They are a pair of excellent models of the Wyandotte form, embodying the beautiful modern fashion of the breed. They are not too coarse neither are they fine boned, but possess characteristics which are useful and beautiful.—A. O. Schilling.



# CARE AND MANAGEMENT OF GROWING CHICKS

DEGREE OF SUCCESS REACHED IN SEASON'S OPERATIONS DEPENDS UPON CARE AND MANAGEMENT OF GROWING CHICKS. CARELESSNESS OR NEGLECT AT THIS TIME WILL BE APPARENT IN NEXT SEASON'S LAYING AND BREEDING PENS. POULTRY RAISERS OFTEN BECOME NEGLIGENT AFTER CHICKS PASS WHAT IS TERMED THE CRITICAL PERIOD. AS FAR AS FUTURE SUCCESS IS CONCERNED THE ENTIRE PERIOD FROM SHELL TO MATURITY CAN BE JUSTLY TERMED CRITICAL

BY W. A. WOLFORD



HERE is no doubt but that the poultry raiser deserves and would enjoy a vacation fully as much as any human being no matter what his profession, trade or calling may be; but to think of taking a vacation during the recognized vacation time,—the summer months—would be fatal to future success to all who depend upon poultry raising for a living.

Many labor under the impression that when the hatching season is over and the weather has become settled and warm, that the chicks can endure some neglect and that it is time to let up so to speak, and take life easy for awhile. This is a pleasing view to take of the situation, but there is never a time during the whole year when close application and attention counts for more, than during the summer months. It is indeed the period during which you either "make or break" your future success. From long experience in poultry raising I believe that there is no period in the chick's life that a hitch in management so effects the chick's future as at this time. There are so many things, so varied in their requirements, that demand prompt attention that the poultryman must be on the job every minute.

## IMPORTANCE OF SUMMER CARE

Summer care does not consist of simply giving food and water, but requires that it be done in such a manner that the chicks will get the greatest benefit without any retarding influences. It is at this period that the poultry raiser must prove his or her efficiency as a feeder as there is no other time that the chicks will so quickly go off their feed as during hot weather.

For chicks that are to grow into layers and breeders it is necessary that they be kept growing constantly, that is, a healthy vigorous growth without forcing. Forcing methods should be employed only when the birds are required for market purposes and that is a subject that requires individual treatment.

## MANAGEMENT MUST FIT CONDITIONS

There are so many varying conditions under which chicks are grown that no hard and fast rules can be laid down that will cover all conditions. Therefore, it is necessary to generalize to some extent in an article of this kind. If exactly the same conditions prevailed in every poultry yard it would not take long to discover the one best method of management and to apply it to all cases, but such is not the case, so we can only make such recommendations as our experience and investigations lead us to believe are the nearest to correct methods, and then each individual poultry keeper will have

to meet the conditions under which he or she labors.

What is written here is only meant to apply to chicks that have passed the brooder stage and are ready for the colony houses. As previously stated any hitch in the management from this period on, that results in retarding growth, even for a short time, is sure to result seriously later on. For that reason I again repeat that I believe that this is the most critical period, and for that reason makes it necessary for the poultryman to be ever on the alert to discover any irregularity before it has had a chance to develop into troublesome proportions.

## SEPARATING THE SEXES

In placing the chicks on range the sexes should be separated and the surplus cockerels disposed of; those intended for future breeders should be placed in quarters by themselves, roomy, well shaded runs being preferable. The pullets should be provided with large, well ventilated colony houses and these should be kept scrupulously clean and free from vermin. Flat perches should be installed in the houses at the beginning and the pullets encouraged to roost at as early an age as possible. By getting them into the roosting habit early one great danger is avoided, that of bunching and

crowding in the corners of the house. Where they are permitted to do so there are always some that get the worst of it with the result that development is retarded with the consequent effect during the laying and breeding season,—poor production in the first instance, and low fertility in the second.

## LIBERAL RANGE IMPORTANT

Where possible the range should be liberal and the portion upon which the houses are located should be well covered with grass. An ideal place is a newly mown meadow bordering on a cornfield. Where such range is available the houses may be placed on the side of the meadow nearest the cornfield and the chicks may make their own choice of the direction of range; both fields furnish plenty of animal food and the cornfield will furnish the necessary shade.

An orchard also makes a desirable location for the colony houses, but they should be placed at the outer edge rather than further in, especially, if it be a well developed apple

orchard where the trees have reached such a growth that the sun seldom penetrates the foliage and the ground is shaded and damp at all times. In orchards of this kind the houses should be located at convenient intervals along the east and south sides. One thing that must be considered in placing the colony houses, is, that the location chosen must have some shade and if possible, the houses should be so located that they are shaded in

(Continued on page 713)



The aim of the Rancocas Poultry Farm, Brown's Mills, N. J., is to produce a strain of Leghorns that will combine both exhibition qualities and productiveness. How well they are succeeding is demonstrated by their show record during the past season and the large quantities of eggs that are produced daily. The above picture shows one day's collection, which is by no means the maximum production, as over twenty pails of eggs are often collected as the result of one day's laying.



# SUCCESSFUL MARKETING OF EGGS BY PARCEL POST

THE PARCEL POST OPENING UP NEW POSSIBILITIES FOR THE POULTRY RAISER. PERMITS OF THE DEVELOPMENT OF CLASS OF TRADE NOT POSSIBLE HERETOFORE. NUMEROUS EXPERIMENTS CONDUCTED BY "UNCLE SAM" PROVES THE PRACTICAL VALUE OF THIS METHOD OF TRANSPORTATION BETWEEN PRODUCER AND CONSUMER. BETTER PRICES FOR THE PRODUCER AND FRESHER ARTICLES FOR THE CONSUMER. HOW TO PREPARE AND MAKE SHIPMENT



HAT eggs can be marketed successfully by parcel post and that this method frequently secures a better price for the producer and a fresher article for the consumer has now been demonstrated to the satisfaction of the experts in the U. S. Department of Agriculture. The Department conducted tests that covered a period of five months. At the end of that period it came to the conclusion that the parcel post was of particular value to the man whose flock was too small or who lives too far from express service to permit him to ship his eggs in the regular commercial case which holds 30 dozen eggs.

## RESULTS OF MANY EXPERIMENTS

In the course of these experiments the Department shipped 9,131 eggs in 466 lots. Of these 327 or slightly less than 3.6 per cent. were broken, but only 209 or slightly less than 2.3 per cent. were absolutely wasted. The others, though broken, could still be used. The percentage of breakage, moreover, will be greatly reduced, it is said, when the employees of the Postoffice become more accustomed to handling such fragile matter.

That the eggs should be properly packed is of course essential. This implies time, care and some expense and is one reason why no attempt should be made to market by parcel post any but the finest quality of eggs, for they alone will bring remunerative prices. Moreover, if the customer who buys in small lots finds that any considerable proportion of his purchases is undesirable or even unattractive in appearance, he will not trouble to ask for deductions on that account; he will simply discontinue his orders. The producer, therefore, must see to it that all the eggs the postman delivers are what he represents them to be.

## EGGS SHOULD BE CAREFULLY CANDLED

This can only be done by candling them. Candling, "The process of testing eggs by passing light through them so as to reveal the condition of the contents," is omitted by many producers who rely on care in collecting to eliminate all bad eggs. It is, however, impossible to avoid an occasional accident and candling is therefore advisable as an extra precaution. A simple outfit can be made out of a small hand lamp and an ordinary pastboard box sufficiently large to be placed

over the lamp, after the ends have been removed, without risk of fire. In order to supply air to the enclosed lamp, notches should be cut in the edge on which the box rests. A round hole is then cut in the box at the level of the lamp flame and the candling done by holding each egg against this hole while the rest of the room is in darkness. The light from the lamp reveals the contents of the egg and those that show any defect can be rejected.

## STERILE EGGS

If possible only infertile eggs should be sent to market. Fertile eggs deteriorate rapidly in warm weather and are the cause of much loss. A broody hen on the nest or accidental exposure to a high temperature may start incubation and cause the egg to spoil and injure the shipper's reputation. It is advisable, therefore, to retain the fertile eggs for home use or dispose of them in

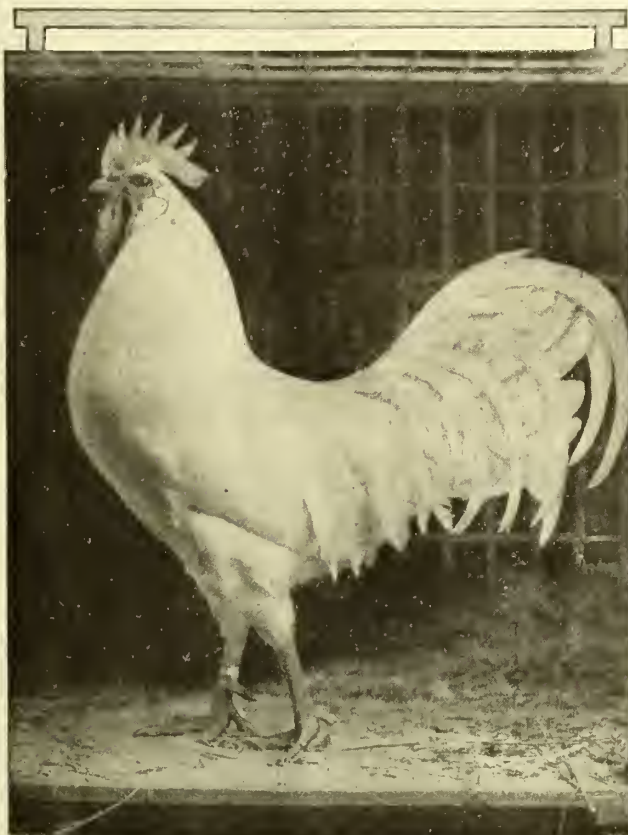
some other way than through the parcel post. This is also true of soiled eggs. Eggs should never be washed when intended for high-class trade, since the process removes a natural mucilaginous coating and opens the pores of the shell.

After this thorough elimination of the unfit, the eggs that remain should be carefully packed in a container of corrugated pasteboard, metal, wood or other suitable material. The post office regulations require this container to be so wrapped that nothing can escape from the package and each egg in addition to be wrapped separately in excelsior, cotton, or some such material. Any soft paper serves the purpose quite well. As for the container itself, there are many kinds on the market and the Department of Agriculture investigators have not attempted to decide which is the best. Instead they refer inquirers to the various State experiment stations which have available information on this question.

## HOW TO PACK

In packing eggs it is well to sort them as far as is practical according to size and color and to keep for home use those which are irregular in shape, unusually long or thin-shelled. Containers that have been badly stained by broken eggs should be replaced by new ones and the package wrapped as neatly as possible. In short every effort should be made to deliver as attractive a package as possible into the hands of the customers.

(Continued on page 716)



FIRST PRIZE S.C. WHITE LEGHORN COCK  
GREATER BUFFALO SHOW, NOVEMBER 1913  
BRED AND OWNED BY MOORE BROS. MOSCOW, N.Y.

S. C. White Leghorns were a strong class at "Greater Buffalo Show" held last Thanksgiving week. H. J. Fiske, one of the best Leghorn Judges in America, passed upon these classes and pronounced the cock shown in above picture "one of the best of his kind in existence today." He was a vigorous individual having excellent modeled body with a beautiful concave back and well finished tail. Moore Bros., of Moscow, N. Y., are breeding a fine line of Leghorns which are making excellent show records for themselves and their customers. Mr. Moore informed us that this male is the sire of many beautiful youngsters some of which were also in the winning and helped largely in winning the display prize at the show above mentioned.—A. O. Schilling.



# ENVIRONMENT THE DETERMINING FACTOR IN PRODUCTION

THE FOUR BASIC PRINCIPLES OF SUCCESSFUL POULTRY KEEPING ARE: FIRST, A MAN WHO UNDERSTANDS AND HAS A LIKING FOR THE BUSINESS. SECOND, WELL-BRED, VIGOROUS AND HEALTHY BIRDS. THIRD, AN ABUNDANT SUPPLY OF THE PROPER FOOD MATERIALS. FOURTH, AN IDEAL ENVIRONMENT AND CERTAINLY NOT THE LEAST OF THESE IS ENVIRONMENT

BY H. R. LEWIS, Poultry Husbandman

New Jersey State Agricultural Experiment Station, New Brunswick, N. J.

[EDITOR'S NOTE.—The following article is from a paper read by Prof. Lewis before the 38th Annual Convention of the American Poultry Association at Atlantic City, New Jersey, August, 1913.



Y environment we mean all external conditions or surroundings affecting the individual at all times during its existence. As soon as the egg begins to incubate the effect of external surroundings is felt by the embryo. Temperature, moisture and air all affect the developing chick. During the growing period an unfavorable environment reacts to the detriment of the birds which usually results in checked growth and impaired breeding qualities. It is also certain that conditions of environment, causing a discomfort, are sure to check egg production. The term environment as used in this paper will deal with external surroundings to which the adult birds are subjected and which are controlled by man.

## A CONGENIAL ENVIRONMENT MEANS A CONTENTED, HAPPY, SINGING HEN, WHICH IS A DIRECT INCENTIVE TO PROFITABLE PRODUCTION

Since it is a simple proposition to get eggs in the spring and early summer owing largely to the fact that this is the natural breeding season, it becomes the problem of the careful poultryman to attempt to create artificial spring conditions during the winter. Egg production is essentially a process of reproduction, and should be considered as such when planning the methods and practices to be followed.

In all lines of human activity the present trend is toward more attention to human hygiene and greater care of one's own person. Doctors tell us that we need more exercise, more sunlight, and above all else, a liberal supply of pure air. Many diseases which were once considered to be incurable are now successfully attacked by the use of these common sense practices. Invalids are being brought back to life by the aid of proper environmental conditions and sleeping out of doors, thus enlisting the aid of the oxygen laden air which is free for all. If we stop to reason, it is certainly true in the case of our domestic animals that they require the same general treatment, and it is with the strongest belief, that our birds will respond more readily and profitably if these simple ideas are carried out, that

I am entering upon this present discussion.

In selecting and planning the features which determine and control the environment of the laying hens, three things should be borne in mind.

1. The location.
2. The design and care of the house.
3. The amount, arrangement and management of the range or yards.

## LOCATION

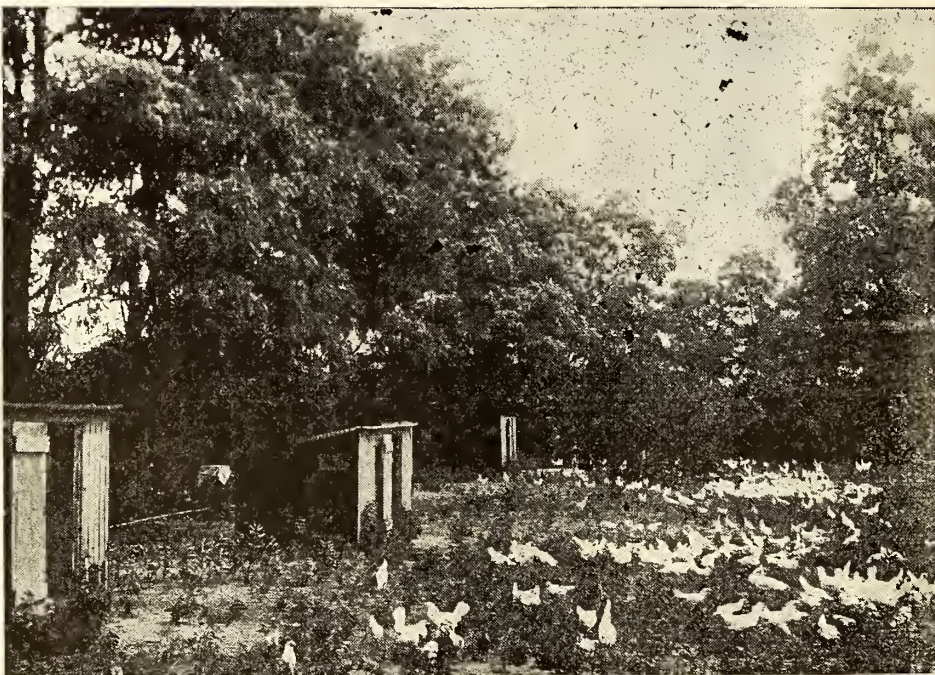
We have heard the question of location discussed from many points, but I want to enumerate briefly a very few of the factors which must affect, sooner or later the bird's environment.

Consideration should be given to having a well drained soil, preferably a rolling country, the location of the plant being on a southern slope. Such a location will insure against soil moisture by providing enough drainage and will also insure proper air circulation and drainage. Never locate the house in a hollow or pocket surrounded by high ground for such a place is damp and poorly ventilated at best. A sandy and friable soil should be selected where possible, being much more desirable because of the better drainage, drying out more quickly in winter and early spring, and can be plowed and cultivated more easily, and is much sweeter and more sanitary than heavier clay soil. The site selected should be well protected from prevailing winds, the location should be large enough for future expansion, and should provide plenty of range or yard room. The location should be convenient, yet it is very undesirable to have the poultry buildings too near the granaries, cribs or barns which may furnish a harbor for rats and other vermin which prey on the poultry. The ideal location should enjoy

rather a mild climate and uniform temperature, being free from frequent fogs or prolonged periods of damp weather.

It can be truly said that there is probably no one best house for all conditions. There are, however, certain definite principles which should be covered by the design and the one which meets these conditions the most economically is obviously the one to build. These essential features are:

**THE HOUSE SHOULD BE VENTILATED**



A flock of Leghorns on range at Monmouth Poultry Farms, Freeau, N. J. Conditions as shown in the above illustration appear to be ideal for the rapid and vigorous development of these chicks. The surroundings or environment contributes to success to a much greater extent than many breeders appear to realize, in fact they often determine the success or failure of a poultry plant. Given such environment as depicted above and the battle is half won.





Group of prominent Barred Plymouth Rock breeders attending the Thirty-eighth Annual Convention of the American Poultry Association at Atlantic City last August. Reading from left to right (standing) Victor Bradley, Haldie Nicholson, Valentine Thompson, Newton Cosh, (seated) C. H. Welles, Chas. Latham, Henry D. Riley, Henry P. Schwab, W. S. Russell, A. C. Hawkins.

#### WITHOUT THE PRESENCE OF DRAFTS BLOWING DIRECTLY ON THE BIRDS

An abundant supply of oxygen is essential if the layers are to perform their normal body functions. It is especially needed where a large number of individuals are continuously crowded together in rather close quarters during the entire winter, as is true on many of our large commercial egg plants. This ventilation can best be provided by the use of a liberal amount of muslin in the front of the house. Such curtains allow at all times fresh air to pass in and the impure air to pass out. This change takes place without drafts or rapid movements of the air. The muslin acts as a sieve or buffer.

The poultry department of the New Jersey Experiment Station have experimented to a considerable extent with many different types of houses during the past two years, and we have worked out certain rules or formulas which cover many of these points. From time to time I shall quote these during this discussion. We have found that for our New Jersey conditions, a large vertical panel of muslin in the front of the house placed rather high, and of such an area that there will be about one square foot of muslin to ten square feet of floor space gives us a sufficient amount of ventilation. Without fresh air it is difficult to keep a house dry and sanitary. The hen's body has an average temperature of over 106 degrees Fahrenheit. This means a rapid combustion within the body cavity which necessitates an abundant supply of fresh air.

The bird instead of ridding the body of the excreta of the kidneys in the form of liquid as is the case with other farm animals, gives them off as a white paste that is passed with the feces. Much of the water that in other animals is passed off in the urine must be largely gotten rid of by means of the respiratory system. In order to accomplish this work nature has endowed the hen with an exceptionally good pair of lungs, and in addition to this, a system of small air sacks extending to all parts of the body, and which are connected even with the cavities of the bones. Unless there is fresh air to help rid the birds of this the hen will not do well, and unless there is good circulation of air to carry off the moist products of the respiratory system the house is bound to be damp.

#### THE POULTRY HOUSE SHOULD BE ENTIRELY FREE FROM MOISTURE

There are two kinds of moisture which are apt to be present and which must be avoided. These are condensation moisture and surface soil water. The first type is caused by the condensation of atmospheric moisture on the ceiling and rafters. This type is usually due to moisture laden air being retained in the house and which is caused directly by insufficient head room and more often by insufficient ventilation and fresh air. This condition can largely be corrected by the substitution of muslin for glass or making the openings in the front of the house much larger.

The second condition is caused by seepage water working its way under the foundation and up through the dirt floor and dampening the litter. This occurrence should be guarded against by proper drainage when the house is built, and by the construction of a suitable concrete floor which, if properly made, is impervious to water. A good concrete floor should be constructed in a way to stop the capillary attraction which, if present, will cause the water to travel up through the concrete as oil travels up a lamp wick. A suitable floor should be constructed as follows:

First, a layer of about six to ten inches of cinders or coarse gravel tamped thoroughly to serve for drainage purposes to keep the soil moisture away from the bottom of the concrete floor. Next a rough coat of concrete about three inches thick, tamped hard, and over this a finished coat of two parts of sand to one of cement, troweled smooth and rounded at the corners. Such a floor is moisture-proof, rat-proof, vermin-proof, easily and quickly cleaned, and economical.

**A GOOD CONCRETE FLOOR COSTS NO MORE THAN A WOOD FLOOR, AND IS MORE EFFICIENT THAN EITHER A DIRT OR WOOD FLOOR.**

#### SUNLIGHT SHOULD REACH EVERY PART OF THE HOUSE AS MUCH OF THE DAY AS POSSIBLE

Sunlight is the best germ destroyer known, cleansing all the parts of the house where it shines, adding warmth and making the environment more congenial, thus acting as a tonic to the birds during the short winter days and inducing a heavier production.

(Continued on page 717)



# AMERICAN POULTRY WORLD



DEVOTED TO THE

**Upbuilding of the Poultry Industry  
in All Branches**

**GRANT M. CURTIS** . . . . . Editor

**WM. C. DENNY** . . . . . } Associate Editors  
**W. A. WOLFORD** . . . . . }

**CONTRIBUTORS:** The best informed and most reliable men and women at work today in the broad field of Poultry Culture and advancement

**STAFF ARTIST:**  
Arthur O. Schilling.

## EDITORIALS

### POULTRY CROP IS SHORT THIS SEASON—WHAT SHOULD BE DONE

Reports continue to come to hand to the effect that fertility ran uncommonly low the past spring, especially during the first half of the hatching season and that as a result the crop of chickens this year is decidedly short, taking the country as a whole. We place reliance on these reports and believe that wide-awake, business-like poultrymen and poultry women should be governed accordingly.

Editor of A. P. W., late in April, started on a six weeks trip through the central-west and down south, visiting Chicago, Kansas City, Oklahoma City, several Texas cities, New Orleans, Memphis and St. Louis. At all points we made careful inquiries among well-informed poultry raisers and dealers in poultry supplies and their reports "on the ground" confirmed those we received, before and since, by correspondence.

Take the matter of the sale of poultry foods, for example. At such points as Chicago, Kansas City, St. Louis, Memphis and Dallas, where many hundreds of cars of poultry foods are manufactured and sold annually, it was stated by the makers themselves that the sale this past spring has been off about one-third—more than this rather than less. Asked for an explanation the reasons given were to this effect:

That on account of the high prices of grain used in making poultry foods, resulting in correspondingly high prices for these foods, together with the fact that unusually high prices were offered the past winter

and spring for table fowls, even including male birds—that this combination caused the farmers who were short of home-grown grains for chicken feed to ship their adult fowls to market in larger numbers than usual, thus reducing the flocks that had to be depended on for the production of eggs for hatching. This cut down the number of fowls to feed, while at the same time, in connection with the late season and infertility of eggs, this marketing of old stock also resulted in a large reduction in the number of chicks hatched, chicks that in their turn were to be fed on commercial poultry foods.

Our inquiries at all points on the May trip sustained this general statement and we believe it to be correct. In the course of our daily correspondence during the last two or three months we have received a large number of letters reporting infertility, poorer hatches than common and smaller flocks of chicks. Breeder after breeder has written us to this effect, until we have become convinced that the 1914 crop of new chicks also is "off" one-third, if not more. May and June turned out the average quantity of new chicks, but as a rule the crop for February, March and April was short probably one-half, if not more. Efforts were made to recover lost ground in May and June, but only with partial success.

Chicks will be chicks this fall, next winter and next spring, both for table use and for breeding and exhibition purposes. Of this there can be no doubt. All poultrymen and poultry women, therefore, should attach an extra value to their 1914 chicks and should give them extra care, with a view to raising every one possible and having them develop into valuable specimens. Furthermore, the choice ones should be held for good prices. Sooner or later the orders will come to hand at these prices. We believe that every reader of this journal can depend safely on this line of argument and course of action.

Because the conditions described by Henry Steinmesch for St. Louis and vicinity apply with equal force, in our opinion, to numerous other localities, we are repeating herewith part of our interview with him of date Friday, May 8th, as same was published in the June issue of this Journal:

"How do I account for the present higher prices? Mainly from the fact that the prices paid at wholesale for poultry this spring—almost any kind of fowls—have also ranged unusually high. This has produced a distinct shortage among the near-by farmers. Feed has been high, extra so for this locality, and the attractive cash prices for fowls have caused the farmers to bring them or ship them to town. Now (May 8th) old fowls, almost regardless of real eating value, are bringing 16½ cents per lb. at wholesale, while 12 cents to 14 cents would be a seasonable price. That extra 3 cents to 4 cents per lb. looks good to the average farmer, especially when the cost of food is high. For several weeks the prices paid at wholesale in this market for pound and pound and a half fryers or broilers has been 50 cents or 75 cents for the kind they prefer, those that weigh a pound and a half. Undoubtedly there is money in fryers at that price for men equipped to produce them right. At retail these same pound and a half

fryers have been bringing 90 cents to an even one dollar.

"Of one thing I am sure: There is bound to be a heavy shortage of poultry throughout this section next fall, winter and spring; therefore I am advising those who have young stock to take extra good care of it, because in my judgment it will be worth more money than common. This will be true, especially of layers and breeders, or birds that are bred as such. Probably the crop in the Valley north of Arkansas is twenty-five to thirty per cent, short and I believe the same is true farther south. Not only has feed been high and the current market prices extra attractive, but this spring the weather has continued cold four to six weeks later than usual, generally speaking. This also has helped to cause the shortage—the shortage in chicks".

### GOLDEN AND SILVER CAMPINE BOOK TO BE PUBLISHED THIS FALL

AMERICAN POULTRY WORLD and the Reliable Poultry Journal have joined forces in the preparation and publication of a valuable book on Campines. The new book will be of the same size as the other A. P. W.-R. P. J. library of poultry books, i. e., 9x12 inches and will consist of eighty pages or such a matter.

Frank L. Platt, associate editor of R. P. J. and a close student of "Campineology", has practically completed the compiling and editing of the new Campine book and expects to finish the work by August 1 to 15. At present he is awaiting the receipt of several promised articles, including a number from English and Belgian authorities.

The new book will be carefully edited and beautifully illustrated. Most of the illustrations will be by A. O. Schilling, staff artist of this journal, and by Franklane L. Sewell, who holds the same position with the Reliable Poultry Journal.

Messrs. Platt, Schilling and Sewell, during the last two years, have been collecting and classifying reliable information and data relating to the history and development of the Campines, both in Europe and America, and meantime have prepared a number of articles on the subject. Several of these articles, instructively illustrated, have appeared in A. P. W. and R. P. J. These articles, each one brought down-to-date, both as to text and illustrations, will be reproduced in our Campine book.

The frontispiece of the forthcoming Campine book will consist of a four-color reproduction of a recent oil painting by Mr. Sewell consisting of prize-winning Golden and Silver Campines, a pair of each. These four birds were the pick of last season's breeding in England and America. They were owned by J. Fred N. Kennedy of Birch Cliff, Ont., Canada, and by Rev. E. Lewis Jones of Heyope Rectory, Knighton, Radnorshire, England.

With a view to getting out just such a book, Messrs. Schilling and Sewell have taken extra pains to collect ideal feathers, to obtain life-like photographs and to preserve numerous special drawings of Campines, the object being to have this Campine Book authoritative in all details, as well as interesting and attractive.

Mr. Platt has been successful in



securing down-to-the-minute articles on Campines from practically all of the leading specialists of this newly-popular breed in the United States, Canada and Europe. These articles will be well illustrated, as a rule, a majority of the pictures being furnished by the two leading poultry artists, Messrs. Schilling and Sewell. The new book will retail at 75 cents per copy. Orders can be sent in now, with the understanding that the book will be ready for mailing in the early fall. Address American Poultry Publishing Company, 158 Pearl St., Buffalo, N. Y. One dollar will extend your subscription to A. P. W. for a year and pay for a copy of the Campine book, including postage.

### IT IS BELIEVED THAT CHICAGO NEXT MONTH WILL BREAK ALL PAST RECORDS IN A. P. A. ATTENDANCE

On page 701 of this issue of A. P. W. appears a decidedly attractive announcement of the thirty-ninth annual convention of the American Poultry Association, which is to be held in Chicago, August 8-15 inclusive. This page, in electrotpe form, has been furnished to the poultry press of the United States and Canada by the Chicago Poultry Society.

The action of preparing and sending out this page announcement may be accepted as a fair indication of the good sense and enterprise that will be shown by the poultrymen and friends of poultry in Chicago and vicinity. Our guess is that the A. P. A. attendance at Chicago next month will run anywhere from six to eight hundred, including members and guests.

At Atlantic City last August five hundred and ten members and guests registered at A. P. A. headquarters. This was the largest attendance in the history of the association. At Denver, August, 1911, the attendance reached two hundred and ninety-one. It was somewhat less at Nashville, Tenn., the year following.

Now watch Chicago! The big city at the foot of Lake Michigan is centrally located, both geographically and as regards the total population of the United States and Canada; therefore with the push and energy which the Chicago Poultry Society and all other near-by friends of the poultry business will put back of this thirty-ninth annual convention, we may confidently expect not only the biggest crowd in the history of the association, but the best time the members have ever had at such a gathering of poultrymen and poultrywomen.

Moreover, this is going to be the MOST IMPORTANT annual meeting in the history of the organization. Final action is to be taken on both the text and illustrations of the 1915 Standard—our accepted guide for breeding, selecting and valuing all breeds and varieties of chickens, turkeys, ducks and geese, and a guide that probably will be in force at least eight years. Additional to this vitally important matter, the proposed new constitution and laws are to be

acted on, section by section—a set of new organic laws that is meant to be the foundation of an association several times larger than the present one with its nearly six thousand members.

The question of breed standards is to be decided finally at this convention, also numerous other matters, a



A defective Pekin type, lacking in fullness of breast, deficient in stern development.—A. O. Schilling.

majority of them connected, directly or indirectly, with the adoption of the new constitution and laws. Such questions as the periodical revision of the Standard of Perfection, the licensing of judges, the attempted control of poultry shows as regards satisfactory rules and the avoidance of conflicts of dates, etc., etc., are to come up for consideration and the best judgment and advice of well-informed members will be much in demand.

The east should be well represented at Chicago next month. During the last eight years, or since the present constitution and by-laws were adopted, five annual conventions have been held down east, one at Auburn, N. Y., three at Niagara Falls and one at Atlantic City. Last year the central-west reported at Atlantic City in goodly numbers and the east should now reciprocate. Chicago is easy to reach from all points of the country and it will pay every "live" poultryman to be there the week of August 10-15 in order to get acquainted—better acquainted—with new and old customers. The change and recreation will do you good, and it pays splendidly to meet

your fellow-poultrymen, to shake them by the hand and talk over matters with them.

Eastern poultrymen sell great quantities of their fowls and hatchling eggs in the central-west and this Chicago convention presents the best opportunity that has occurred in the last ten years to meet several hundred prominent central-west poultrymen and make their acquaintance. The prominent eastern poultryman who does not journey to Chicago next month, prepared to stay four or five days and mix with the progressive fanciers of Illinois, Indiana, Michigan, Wisconsin and the neighboring states, will overlook an opportunity to mingle personally with the largest gathering of up-to-date and down-to-the-minute breeders of standard poultry that has ever assembled on Mother Earth in the history of the world.

This will be true, Mr. and Mrs. Reader, just as sure as you are an inch high! We lived in the west—in Illinois—twenty-six years, four years of which were spent in Chicago, and we know how they do things in that big city. Moreover, we have been in Chicago twice during the last eight weeks and learned "on the ground" of the preparations the Chicago poultrymen and poultry journalists are making for this thirty-ninth annual convention. Sell another rooster, therefore, or even borrow money from your wife's relatives—but whatever you do, conclude arrangements without delay for this trip to Chicago, so that your name will appear on the register as a member of A. P. A. who was in attendance

**PROF. JOHN EVANS, Judge of all varieties of poultry.** Orpingtons and Columbians a specialty. I have a few open dates for 1914 and 1915. For information Address: 1185 Cranston St. Cranston, R. I. ORIGINATOR & FREEDER OF COLUMBIAN LEGHORNS

## NIAGRADOT

### EGGS

from winners at Pittsburgh, Buffalo, Guelph and Toronto, \$2.00, \$3.00 and \$5.00 per setting.

### HALF PRICE

after May 1st. Orders filled in rotation, order from this advertisement. Catalogue free.

**MARSHALL & MARSHALL**  
NIAGARA FALLS, CANADA

## WHITE WYANDOTTES

## Faultless Leghorns At Bargain Prices

To all lovers of the Leghorn breed we recommend that they forward their name and address at once to Turtle Point Farm for their Sales List in which they are offering their New York, Boston and Buffalo last seasons winners that were in their breeding pens this season at one-half their actual value. This is an exceptional chance to procure elegant exhibition stock for the coming fall and winter shows and birds that are of the best when breeders are desired. This line of Leghorns have been winning consistently at our national shows for several years and they have the blood lines back of them that enable them to reproduce themselves. We are personally acquainted with the management of this farm and can tell of no better place to recommend a customer to place his order as they will give you excellent value no matter what quantity or quality you desire. In writing them also ask for their 48 page catalogue which gives you very good ideas of the means and quality they have to fill your order. Drop a postal today to

**TURTLE POINT FARM,**

**SARATOGA SPRINGS, N. Y.**



at the thirty-ninth annual convention of the world's largest live-stock association.

### NO LATER DEVELOPMENTS, FOR PUBLIC CONSUMPTION, IN THE UNITED POULTRY FARMS MATTER

Since our last issue went to press nothing new of special interest has developed for public consumption in



The above represents an undesirable Pekin type, being rather of the Runner type. Neck is too long and slender, flat in breast and deficient in stern.—A. O. Schilling.

the stock-selling campaign of the United Poultry Farms, Inc., except that the following circular letter was mailed by the fiscal agents to persons to whom the "prospectus" had been sent:

"Indianapolis, Ind.  
"Grant M. Curtis,  
"Buffalo, N. Y.

"Dear Sir:—After all, making an investment is a comparatively simple matter. A man with money to invest must look about him and choose what, in his opinion, is the best thing, in point of safety—safety first—and profit that he can enter into. He should give consideration, first of all, to the PEOPLE in the management—the MEN who invite him into the enterprise with them.

"MONEY plus the RIGHT Men equals PROFIT in any business of a reasonably profitable character.

"In the case of the United Poultry Farms, you will certainly agree that the thoroughbred poultry business is a profitable line in the hands of the right men and you will certainly agree, quite heartily, that the men who are in the United, and who ask you to put your dollars with their genius, are the RIGHT MEN'.

"You should be—and probably are—just as anxious to go into this enterprise as they are to have you go into it. THEY want you. YOU want them. And with this thought in our minds, we are a bit surprised that we have not heard from you by this time.

"Possibly you misplaced the subscription blank which we sent with the prospectus, so we are sending another herewith and shall be glad to have you use it just as soon as you can. If you have the one we sent before, perhaps you have a friend you would like to bring into the Company with you, for as a stockholder, you will, of course,

want to see the necessary capital raised just as soon as possible.

"The Company has made the terms of subscription as easy as possible. You may pay one-half in cash with your subscription and the other half you may secure with a note, due in six months from date.

"Remember the formula, MONEY plus THE RIGHT MEN equals PROFIT—and please let us hear from you. Hoping and expecting that you will give this your early attention, we are, Yours very truly,  
"ZAISER, RICHARDSON & CARTER'.

The capital letters used in the foregoing letter were placed there by the author or authors of the letter, not by us.

It should be understood that the

columns of A. P. W. are wide open to the officers, also to the fiscal agents of the United Poultry Farms, Inc., provided they have any further statements they wish to make to readers of this journal. At any time that A. P. W. criticizes men or measures, the men involved, or anybody else whose interests are at stake, will be permitted to reply in these columns if they so desire. Just what success the United Farms people are having in selling capital stock, we do not know, but such reports as have come to our attention have not been truly promising for the immediate or ultimate success of the venture.

## W. O. CHASE IS TRYING TO SETTLE

S. C. BLACK MINORCA BREEDER OF HILLSBORO, ILL., APPEARS TO APPRECIATE THE SERIOUSNESS OF HIS POSITION. HE HAS RAISED THE MONEY TO REFUND THE AMOUNTS SENT BY SEVERAL CUSTOMERS AND HAS SHIPPED LONG-BELATED BIRDS TO STILL OTHER CUSTOMERS. NEXT MONTH HE PROBABLY WILL BE DROPPED FROM MEMBERSHIP IN THE AMERICAN POULTRY ASSOCIATION

In the May issue of A. P. W., after long waiting and several promises of reformation, we deemed it advisable to warn our readers against further dealings with W. O. Chase, Single Comb Black Minorca breeder of Hillsboro, Ill. Four or five letters of complaint from injured customers of his were published, including one from Wm. H. Manning, proprietor of Turtle Point Poultry Farm, Saratoga Springs, N. Y.

Evidence has come to hand since that Mr. Chase is now trying to settle the numerous serious complaints against him. This is being done in two ways; by raising money and returning it to his customers and by furnishing them birds or hatching eggs in cases where they are willing to accept them, after weeks or months of waiting.

Under date of June 13th, 1914, Wm. H. Manning wrote us as follows:

"Our friend Chase of Hillsboro, has settled his account with me, sending an express order the other day for the full amount of my claim. I hope he has done the same with others. If you think Mr. Chase deserves it, you are at liberty to mention that he has settled with me'.

In our May issue, page 562, was published a letter of date March 28th, 1914, from James F. Baldwin, 3609 Vankirk St., Wisconsin, Philadelphia, Pa., reporting that on February 22nd of this year he had sent Mr. Chase \$15 as part payment of \$25 for a two-year-old cock bird. Up to March 28th Mr. Chase still had Mr. Baldwin's money and the bird. March 19th, Mr. Chase sent Mr. Baldwin a bird, which the latter immediately returned, pronouncing it "no good". Said Mr. Baldwin: "On the same day that I shipped the bird back, he sent me a postal, asking me to return the cock bird, doing this

before he knew that I was returning it'.

Under date June 6th, Mr. Baldwin wrote A. P. W. a postal card as follows:

"Received on the fifth an express draft from W. O. Chase of Hillsboro, Ill. Many thanks for your assistance'.

### ANOTHER OF CHASE'S BAD DEALS

The following letter of complaint from a subscriber to A. P. W. is similar to those printed in our May issue:

"Demmon, Mich., May 18, 1914.  
"Editor American Poultry World,  
Buffalo, N. Y.

"I am a new subscriber to your magazine, receiving my first number Saturday, May 16th. While reading it I came across the letters written by various parties regarding one W. O. Chase of



The above photograph represents a Pekin duck of defective type and carriage. The body is carried too low at breast, resembling more the Rouen and approaching the Aylesbury. A good Pekin should carry its body more erect.—A. O. Schilling.

## BYERS' ORPINGTONS — BUFFS, BLACKS, WHITES

Each season I offer bargains in Breeding Stock and future Show Birds. This month (not next) I offer very exceptional bargains. Take advantage of these to save money and succeed next winter. Special list free.

C. S. BYERS,

(Orpington Specialist 15 Years.)

HAZELRIGG, IND.



Hillsboro, Ill., and thought I would write you about my experience with this man.

"Sometime about the 1st of March, this year, I wrote Mr. Chase, asking for his literature. March 16th I received it with a proposition that he would furnish five birds (S. C. B. Minorcas) like I wanted for \$20.00—\$10.00 down, \$5.00 April 23rd and \$5.00 May 23rd. I immediately mailed him the \$10.00 and after waiting until March 23rd he mailed me two notes to sign, payable as above, saying that he would ship birds as soon as he received these notes.

"I signed the notes and returned them to him at once and after waiting a reasonable time turned the correspondence over to the postal inspectors. Since doing that I received another letter from Mr. Chase (May 16th) returning my notes and saying he would like to ship me \$20.00 worth of eggs or chicks for the ten dollars he still had.

"I have answered Mr. Chase's letter by saying that all our correspondence had been turned over to the postal authorities and that he would no doubt hear from them soon.

"You may publish this letter if you wish. I am still hoping to get my ten back.

"Yours very truly,

"F. A. Jaehnig".

Mr. Chase, some time ago, started a plan whereby would-be customers were to send him half cash with order and pay the balance in notes. That was a venture which has not appeared to work out well. In numerous cases, for some reason or another, he did not ship either birds or hatching eggs, as promised. It would appear that he did not have a sufficient number of birds with which to fill these orders, nor enough laying hens to produce the eggs required. Worse still, he used the money for other purposes, outside of his poultry business. Step by step he got farther in the hole, so to speak, until his dealings became a country-wide scandal and of serious injury to the standard-bred poultry industry. It was when conditions reached this state that we decided to expose his misconduct by publishing a few of the numerous letters received by AMERICAN POULTRY WORLD and the Reliable Poultry Journal.

But this was not done without giving Mr. Chase fair warning and plenty of chance or time in which to "right about face" and conduct his standard-bred poultry business on an honest basis. He was written to repeatedly and asked to adjust these serious complaints. As far back as December, 1913, Mr. Denny, associate editor of A. P. W., told Mr. Chase in person at the Chicago Coliseum show that if he did not settle promptly the complaints referred to him by A. P. W., he would find himself in trouble, not only with the poultry papers in which he was advertising, but also with the United States postal authorities.

Mr. Chase promised repeatedly to do better, but evidence continued to

come to hand week after week, that he was still following the same unfair and dishonest practices, doing so to such an extent that the American Poultry Association had received a dozen or more serious complaints, the injured members demanding that Mr. Chase be expelled from the organization. We know of eight such



Another defective Pekin type, particularly in stern, being too narrow where legs are set into body. The body at shoulders is broad and flat and tapers to rear. The bill is also too much dishd or concave in shape from skull to end at beak.—A. O. Schilling.

complaints that were referred to the American Poultry Association. They were from the following named persons:

O. F. Morgan, Kelliher, Minnesota.  
Minorca Egg Production Co.,  
Riverdale, Md.

Geo. H. Rowe, 1811 McClain, Dayton, Ohio.

George W. Carpenter, Williams-town, Mich.

F. R. Henson, Box 73, Yukon, Colorado.

Geo. P. Wood, Box 23, Emerson, Man., Canada.

J. C. Sykes, R. R. No. 2, Dayton, Ohio.

J. C. Phillips, Blackstone, Va.

None of the foregoing eight cases is among those that have been published in these columns. This fact alone will indicate the extent and seriousness of Mr. Chase's unsatisfactory Minorca operations.

In June issue of A. P. W. was published an item entitled, "W. O. Chase Very Near The Danger Line in Texas". In that item was set forth the fact that Mr. Chase had obtained \$20.00 from W. E. Davis of Bluffdale, Texas, a subscriber to The

Poultry News, published at Dallas by C. P. Van Winkle, also that on complaint of his subscriber, Mr. Van Winkle, after futile efforts to get Mr. Chase to refund the \$20.00, had placed this case and all letters relating thereto in the hands of the United States District Attorney at Dallas, with the promise that the matter would be taken before the Federal Grand Jury at its next meeting and an indictment asked for against the Hillsboro poultryman.

Under date June 8th we wrote Editor Van Winkle and asked what further had been done, if anything, in the Davis-Chase case, and June 13th he replied:

"Relative to the charges I have preferred against W. O. Chase, beg to advise that these charges were sent to Secretary Campbell of A. P. A., and that you have a copy of them. Mr. Chase has not yet made good, but we are in receipt of a letter from him, dated June 5th, in which he promises to return the \$20.00 that he still holds, belonging to Mr. Davis.

"We fear that this promise is about like the others that Mr. Chase has been in the habit of making. Secretary Campbell has referred the charges to E. E. Richards, chairman of the A. P. A. Advisory Committee, and I am in receipt of a letter from Mr. Richards,



1st Cockerel, Madison Square Garden, 1913

Head of 1st Pen, Philadelphia, 1913

## Summer Sale of Rancocas Stock

Rancocas have in their breeding yard, over sixty birds that have won at such shows as Madison Square Garden and Palace Show, New York City, New York State Fair, New Jersey State Fair, Boston, Philadelphia and Hagerstown. We have hundreds of early chicks bred from them that are coming on splendidly. We propose for the first time in the history of the farm to hold a summer sale, and to offer at reduced prices, some of our record birds, together with 200 other choice specimens. This will be an unusual opportunity to secure White Leghorns and White Rocks that have won national fame. The sale will include White Leghorn males that have won as follows: First cock at Philadelphia 1912; First Pen male at Philadelphia 1911; First Pen male at Boston 1913; First Pen male at Madison Square Garden 1910; and such famous White Rock males as second White Cockerel, Boston 1913; Third Cockerel at Madison Square Garden 1913; Fourth Cockerel at Madison Square Garden 1913; and Fourth Pen male at Boston 1913. This sale will include many other record birds and choice breeders. Write for our summer sale catalog.

**Rancocas Poultry Farms**

Box 610, Browns Mills, New Jersey



Yearlings (hens) 1 cockerel (worth \$5.00) all for \$3.50 don't wait. Order right now while you are thinking of it. Send for catalogue, its free, and the reason why we are closing out all but two breeds.

FORT ANN, N. Y.,

## EGGS FOR HATCHING:

Our increased facilities with that of utilizing one entire farm to each breed, (two farms, two breeds) S. C. White Leghorns and Light Brahm, places us in a position to defy quality and prices with expediency and absolute accuracy assured. No possibility of anything but careful and intelligent selections of the highest of high grade pure bred S. C. White Leghorns and Light Brahm. You take no chance, neither do we, Underhill gives his entire attention and time to them and nothing else, isn't it worth your consideration? To those ordering direct from this ad mentioning this Journal we will make this most extraordinary low price. Eggs from exhibition matings White Leghorns \$2.00 per setting of 15 eggs. High grade utility yearlings eggs \$5.00 per 100, \$40.00 per 1000. Fertility Guaranteed. Baby chicks \$10.00 per 100. One-quarter of the full amount of order at the time it is booked, balance at the time you want them shipped, we urge early booking, a few more Brown Leghorns to close out, 2

Box W,

AN HISTORIC SPOT



dated May 29th, in which he makes the following statement:

"S. T. Campbell, Secretary of A. P. A., has forwarded to me your letter in regard to Chase and I will state that this is one of the semi-weekly occurrences that has been happening for some time. Am writing Mr. Chase today, with the hope of getting him to return the money. He has been selling lots of stock on the partial-payment plan and accepted notes. As a rule he has treated his customers about the same as he treated Mr. Davis. However, have been successful in getting him to make good on quite a number of complaints, but not on all of them. He claims that at the present time he is attempting to borrow some money and that he is going to have enough to settle all these accounts and put him on a square footing before the annual meeting of the A. P. A., which is to be held the second week in August".

Continuing, in his letter of the 13th inst., Editor Van Winkle states further:

"In regard to the complaint I filed against Mr. Chase with the Postal Department here, beg to advise that all the papers are still in the possession of the United States District Attorney's office and are still being investigated. As a rule it takes quite a while to secure action, because it takes the postal authorities quite a little time to investigate complaints of this nature. Will advise you as soon as I can learn what disposition is made of this complaint".

Mr. Chase has been operating in Canada on the same general plan as in the United States. In a recent issue of the Canadian Poultry Re-

view, Toronto, Canada, a serious complaint was referred to, while the June issue of the Canadian Poultry News, Grimsby, Ontario, is reported the case of R. H. Pond, Woodstock, Ont. October 16th last Mr. Pond sent Mr. Chase ten dollars and as late as April 11th of this year he was still waiting for the return of the money or some other adjustment of the deal. Referring to this case, the editor of the Canadian Poultry News states, in June issue:

"No money has ever come along and on April 13 I reported the matter to Postoffice Department at Washington, who requested I send all correspondence, which was done on May 6. On May 13 they replied that original letter had not accompanied same and were returning my correspondence, asking that letters be marked for identification and requesting a detailed statement of transactions with the man in question".

Certain it is that Mr. Chase should lose no time in settling all these matters, otherwise the chances are several to one that the United States Postal Authorities will arrest and prosecute him. In any event, he should be dropped from membership in the American Poultry Association. There has been far too much misconduct on his part to entitle him to have it overlooked, or to justify the association in continuing his name on the membership roll.

of Animal Industry of the U. S. Department of Agriculture. The state of Missouri was the first to observe what is now called "Rooster Day", meaning the day of each year on which poultrymen and farmers—particularly the latter—are strongly urged to send their surplus male birds to market, regardless. In this connection we are pleased to quote in full the contents of a circular issued last month (June) by the Missouri State Poultry Experiment Station, Mountain Grove, Mo.:

#### SWAT THE ROOSTER!

**He Spills One-Half Million Dollars' Worth of Missouri Eggs a Month, From June to October, Each Year**

"Swat the Rooster" should be the motto of every Missouri poultry raiser for the month of June. In fact conditions are such that the Governor would be fully warranted in issuing a proclamation designating the first day of June as "Rooster Day", and urging the farmers and poultry raisers of the State on that day to kill, sell or separate the roosters from their flocks.

Absolutely millions of dollars' worth of Missouri market eggs are spoiled every summer because they are fertile, and it is the Missouri farmers and poultry raisers who are losing this tremendous sum each year. The eastern egg buyers have discovered by years of experience that one out of every five eggs coming from this State is a bad egg, and they make the price to us and our egg buyers accordingly. So it is the producer who loses after all.

After the hatching season is over there is no longer any reasonable excuse for keeping the males with the laying hens. Some people imagine that the hens lay more eggs if the roosters are allowed to run with them. This is a mistake. On the contrary, careful experiments have shown that a flock of hens will actually lay more eggs if the males are not allowed with them.

Because the deterioration which takes place in an egg is not easily visible to the naked eye, as it is in fruits, vegetables, etc., people do not realize that it is one of the most perishable of all food products. This is especially true of the fertile egg. A fertile egg kept in a warm room will become unfit for eating purposes almost as quickly as milk.

It is a mistaken idea that a fertile egg has to be in an incubator or under a hen in order for the germ to begin to develop. A very large per cent. of the eggs candled out every summer by carlot shippers and the wholesale egg dealers are fertile eggs in which the germ has started to develop and then died when subjected to a lower temperature, thus causing decay to set in. A fertile egg kept in a warm room or a hot country store for even twenty-four hours will be unfit for food on account of the growth of the germ.

Infertile eggs laid by hens with which no male is running will keep in good condition for two weeks or even longer when subjected to a temperature which would spoil a fertile egg in twenty-four hours. To illustrate this fact a cake was recently baked at this Experiment Station, in the making of which infertile eggs were used that had been in an incubator for fourteen days, subjected to a temperature of 103 to 104 degrees. The cake was eaten with a relish by a dozen men, who pronounced it first class in every respect.

When the farmers of this State get to producing infertile eggs during the summer months, they will, as a result, eventually get a much higher price for their eggs. Until they do this, there is not much hope for an improvement in prices.

In conclusion, it may be said that there are five simple rules which, if carefully observed by our poultry rais-

## CAMPAIGN TO "SWAT THE ROOSTER"

IT HAS LONG BEEN BELIEVED AMONG PRACTICAL POULTRYMEN THAT THE "ROOSTER" IS A DETRIMENT RATHER THAN A BENEFIT, EXCEPT DURING THE BREEDING SEASON AND NOW A COUNTRY-WIDE CAMPAIGN IS UNDER WAY TO DISPENSE WITH HIM AS A LEADER OF THE FLOCK AND A SPOILER OF MERCHANTABLE EGGS

The long-mooted question of whether or not the presence of the male bird is really an inducement for hens to hunt a nest, begin laying and arrange for raising a family may not have been settled definitely for all time, but it is now generally conceded that the activities of a male bird result, each summer, in the loss of untold millions of eggs by spoilage on account of the presence of the embryonic germ which, under a temperature, natural or artificial, that reaches close to one hundred degrees, begins to develop, producing "bad" and unmarketable eggs, whereas it is certain that in a great majority of these cases if the male bird were excluded from the flock or breeding pen, these same eggs would continue in a state suitable for table use days and weeks longer, doing so under the conditions that spoil fertilized eggs.

As a matter of course when a hen lays an egg she has no thought of its going to market. Her idea in selecting or entering a nest is to raise a family. She proceeds on instinct, but selection and habit have done wonders in the way of largely increasing her annual output. Where originally the hen in domestication

laid probably two to three clutches of eggs each season—meaning the breeding season, or season of reproduction—she has been bred and trained into the habit of laying as high as fifteen to twenty clutches of eggs, with numerous records running still higher than this.

It was natural to believe that the presence of the male bird awakened or accelerated the maternal instinct, causing her ladyship, the hen, to want to set up a family of her own without delay. The progress of poultry culture seems to have disproved this long-held idea or belief, although it is doubtful if accurate, scientific data exists on which to base a final conclusion. Looked at from the commercial point of view, however, meaning the spoilage of countless millions of otherwise merchantable eggs, there can be no doubt that after the breeding season is over each year, the males should be separated from the hens and either kept for later use in the same capacity or marketed as prospective breeders or for table use.

The slogan, "swat the rooster", is said to have been used first in bulletin No. 160, entitled, "The Care of the Farm Egg", as published in the early spring of 1913, by the Bureau

## A GOLDEN OPPORTUNITY

above this price. It is not too late to hatch your winter show birds, of any strain. Catalogue Free.

B. H. SCRANTON,

To secure some of the Best S. C. Rhode Island Reds in the World' Eggs from Scranton's S. C. Reds will be sold at one-half price after May 15. This includes all matings listed at \$5.00 per setting of 15 and Remember my Reds have been the most consistent winners in the big shows.

Box P. W.

RISEING SUN, IND.



ers, will increase the selling price of Missouri market eggs to the extent of several million dollars a year, and make them sought after in the fancy egg markets of the world, instead of being, as they now are, practically shunned by these markets:

"These rules are:

"1—Give the hens clean nests and plenty of them.

"2—Gather eggs at least once daily (twice daily during hot weather),

"3—Keep eggs in a cool place,

"4—Market eggs at least twice a week in warm weather.

"5—KILL, SELL, OR CONFINED ALL MATURE MALE BIRDS AS SOON AS THE HATCHING SEASON IS OVER. 'SWAT THE ROOSTER'."

That the good advice given to farmers in the above-mentioned circular was generally acted upon is stated with emphasis in a type-written communication which was furnished to the poultry press by the Missouri State Poultry Experiment Station the latter part of last month. T. E. Quisenberry is director of this Experiment Station and following is his report of what was done by Missouri farmers and poultry buyers on June 6, toward "swatting" the rooster:

"The 'Rooster' has been 'Swatted'! Over 250,000 male birds were marketed in Missouri on 'Rooster Day', Saturday, June 6th, and during the few days which preceded this. Practically all of the 1,500 buyers and wholesale dealers in eggs in Missouri co-operated with us in this movement, and from reports received from them thus far, it is safe to say that a quarter of a million males were marketed by Missouri farmers during 'Rooster Week'. The production of infertile eggs will mean the prevention of a loss of from \$1,000,000 to \$3,000,000 this season in Missouri alone. This movement also will result in the improvement of the quality of the poultry as most of these farmers will replace their scrub males with pure bred males. It will also result in the improvement of the cleanliness of the egg, the method of handling, and the improvement of the quality in general.

"The fact that farmers show enough interest in the quality of the eggs they market to dispose of their surplus males and market infertile eggs proves that they are making progress and taking real interest, and there will be a general improvement in the poultry business along all lines in this state as a result.

"The object in 'Swatting the Rooster' is not to keep bacteria out of the egg as some seem to imagine, but to prevent chick development in fertile eggs. Before the eggs pass through the hands of the farmer, the country store, the local dealer, the wholesale jobber and the retailer, and by the time they reach the consumer, there has been considerable delay. An egg does not have to be in an incubator for the embryo to grow and develop, but chick development takes place in a hot country store or a living room or on a hot country road, on the road to market, or in any place or under any circumstances where the temperature is as high as it is on most hot summer days.

"Therefore, by eliminating the fertility, we prevent chick development which causes our greatest loss in summer months. I have some eggs on my desk which are over a year old. They have never decayed. The contents simply dried up. 'Swat the Rooster' by all means if you have not already done so. Confine him if you wish to carry him over for breeding purposes another season."

This year "Rooster Day" was observed not only in Missouri, but also in Ohio, Pennsylvania, Tennessee, Kentucky, Iowa and South Dakota. Following is an official proclamation issued by S. E. Strode, Commissioner in charge of the Bureau of Dairy and Food Division, for "Rooster Day" in

Ohio, also an interesting letter which appeared in the New York Produce Review and American Creamery for June 3rd, addressed to members of the Ohio Butter, Egg and Poultry Producers' and Shippers' Association by the president and secretary:

#### AGRICULTURAL COMMISSION OF OHIO

Columbus  
Dairy and Food Division

S. E. Strode, Commissioner in Charge  
PROCLAMATION

WHEREAS, investigation made by this department discloses the fact that the farmers and poultry raisers of Ohio suffer an annual loss of approximately one and one-half million dollars in the production of eggs that are inferior in quality, due to fertilization, which produces in commercial eggs conditions commonly known and understood as heated eggs, blood rings, and chick rots that make them unwholesome for food, and

WHEREAS, after the hatching season is over there is no longer necessity for keeping the rooster with the laying hens, as repeated experiments have demonstrated that hens lay, as well or better, without the presence of the rooster, therefore, I, Sylvanus E. Strode, Commissioner-in-Charge of the Dairy and Food Division of the Ohio Agricultural Commission, do hereby designate Saturday, June 6th, 1914, as

#### ROOSTER DAY

Let us, the five million producers and consumers of Ohio, on this day separate the rooster from his flocks, by decapitation or other means, and thereby contribute to the production of quality eggs. Better that we should enjoy his sweet morsel on our tables and bless him for having fulfilled his mission than to tolerate longer his presence among the flocks and thereby suffer the losses that ensue.

IN TESTIMONY WHEREOF, I have hereunto set my hand and caused the seal of the Agricultural Commission of Ohio to be affixed at Columbus, this sixth day of May, in the year of our Lord, one thousand nine hundred and fourteen.

S. E. Strode.

#### SPECIAL HIGH PRICES PAID TO "END" THE ROOSTER

The letter addressed to members of Ohio Butter, Egg and Poultry Producers' and Shippers' Association by its president, was as follows:

Marion, Ohio, May 25, 1914.

To the Members of this Association:

The president and secretary of your association wish to call your attention to the proclamation issued by the Dairy and Food Division of the Agricultural

Commission of Ohio designating Saturday, June 6th, 1914, as "Rooster Day".

At a conference held May 15th with a representative of this department it was decided that our association could do a great deal towards making this day a great success in accomplishing the purpose for which it was created. We therefore urge you to do all you can in the way of creating sentiment favorable to the proclamation.

Your president and secretary feel that this is an extremely important matter and if carried out will save the egg dealer and producers of Ohio many thousands of dollars. Will you therefore give it all the publicity possible? See that this proclamation is printed in your nearest daily and weekly newspaper. Talk about it, tack up some notices calling attention to it, and get the farmers to see that it is the sensible and profitable thing to do.

We recommend that you pay an extra price for roosters during the week of June 1st to 6th as an inducement for the farmers to sell, even though you pay as much or more than you can get for them. We believe that the loss to you will be more than made up in the improvement which will result in the quality of the eggs produced.

Extra copies of this proclamation can be secured from the dairy and food

#### BLUE ANDALUSIANS

The popular blues for fancies or farmer.

Let us tell you about them.

L. C. TAYLOR & SON, GIBSONBURG, O

**FOR SALE** My breeders of Silver Duckwings; S. C. Buff Leghorns; Silver Penciled Rocks and S. C. R. I. Reds. Some show birds also. Write at once to (Sec-Treas. National S. C. Buff Leghorn Club) THOS. PEER, CALDWELL, N. J.

#### THE EVERLAY FARM

METHUEN, MASS.

Largest breeders of White Leghorns in the East. Day Old Chicks, Eggs and Breeding Stock.

#### For High BARRED ROCKS at Moderate Quality Prices

My birds will be mated January 1st and after January 10th I will have eggs for hatching.

Write C. H. BOSCHEN, ASHLAND, VA

#### Wray Wyandottes Win

SILVER, GOLDEN, WHITE, PARTRIDGE  
Wray Bros., Box 1942, London, Can.

#### SIMPLEX BROODER STOVES

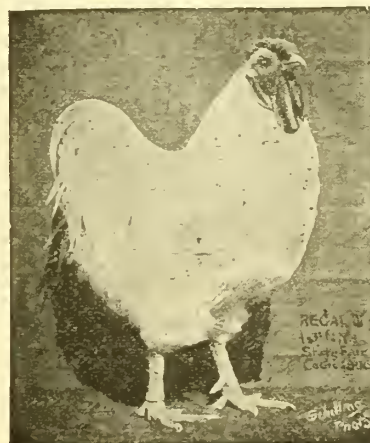
Save time, labor and expense. They bring from 30 to 50 per cent. more of your chicks to maturity, swell your profits. Simplex stoves are simple to operate, safe to use, no wick, no gas, no flames, simple oil regulator.

SIMPLEX BROODER STOVE,

221 Fourth St., GRAND RAPIDS, MICH.

#### HALBACH'S WHITE PLYMOUTH ROCKS

Won every first and second at Chicago. Write for free bargain sales list. It offers the most attractive bargains you have ever known. Don't miss it but write now.  
H. W. HALBACH, Box 3, WATERFORD, WISC.



#### Regal Summer Sale

In order to make room for my large flock of rapidly growing chicks I am offering for sale 425 selected breeders at remarkably low prices. Send for free sale list giving description and prices also 20-page catalogue. EGGS from prize matings, \$2.50 per 15, \$4.50 per 30, \$6.00 per 45, \$12.00 per 100.

#### Regal Cockerels and Pullets

This season I have over 1000 early chicks the best I ever owned. If you want to make a winning in your State Fair let me quote you prices.

John S. Martin, Box W, Port Dover, Can.



deparment at Columbus, Ohio. Hoping you will co-operate with the State Department in this matter, we remain,

Very truly yours,

Homer C. Smith, Pres.

O. I. Clevenger, Sec. and Treas.

Here we learn that the plan of the poultry and egg buyers is to offer farmers four to five cents per pound above the market for their useless male birds, doing this with the belief that disposing of the roosters will largely increase the summer production of marketable eggs, to the benefit of all concerned. In this connection the following letter by Jesse J. Naive, head of the well-known firm of Naive-Spillers Co., Nashville, Tenn., extensive buyers of market poultry and eggs, is of interest:

#### "ROOSTER DAY" IN THE SOUTH

Nashville, Tenn., May 26, 1914.

Eds. N. Y. Produce Review and American Creamery—Replying to your of the 23rd. While we do not believe "Rooster Day" was observed throughout this State and Kentucky quite so generally as was at one time anticipated, still we think there were a good many roosters sold last Saturday. We think the shippers went about it in an altogether impractical way in some cases, as we are of the opinion they simply paid a premium for roosters without any agreement with the farmers that they must keep the roosters from their flocks until after the hot weather.

We intended observing this to the letter, but found we would have so much trouble with the farmers and believing there was danger in not getting off the Fall supply of broilers, by the farmer selling all of his roosters instead of holding enough for breeding purposes in separate pens, that we felt some educational work among the farmers must be done before offering them such inducement as 4 or 5c. per pound above the market, when we would most likely lose the Fall crop of broilers and have a short crop of poultry in this section another season.

Yours truly,

The Naive-Spillers Co.,

By Jesse J. Naive.

#### VALUE OF OLD HENS

The average poultry fanciers at this time of the year will be complaining of the scarcity of eggs; the fault in a great measure is due to themselves through keeping too many old hens and not enough pullets. The hen should not be kept above two years unless she has proved an exceptionally good layer or as a breeder of good specimens; not that a hen ceases to be profitable, but if winter eggs are required she will generally be found in her third season to lay when eggs are cheaper, i. e., summer. All old hens that are for disposal should be parted with before they drop into moult in the autumn, and enough chickens and pullets should have been reared to replace them. If old hens are kept too late in the season they will bring next to nothing in the open market. Perhaps 60 to 75c a pair. Striking proof of the value of old vs. young fowl, came to the writer's notice at a local sale in the autumn. A dozen of young pullets fetched a higher price than old hens four or five times their own weights. If sold privately and separately, fanciers can perhaps make from 50 to 60c each and they don't make a bad dinner boiled. Some people when buying fowl for egg production think it good business to buy old hens because they are cheap. But they find out very often it is a mistake and most expensive in



Four well known show managers attending the A. P. A. Convention at Atlantic City last August. Reading from left to right, standing, F. E. Gilbert, Sec., Philadelphia Show; Chas. D. Cleveland, Sec., Madison Square Garden Show; seated, D. O. Lively, Director in charge of live stock department Panama-Pacific Exposition; Geo. O. Brown, Baltimore, Md., for many years secretary of the Baltimore Show.

the end. Cheapness and degeneracy very often (but not always) go hand in hand. It is to be regretted that the average farmer who keeps a few nondescript or barn door fowls does not keep young poultry, pure bred poultry and more poultry. It is one of the most profitable side lines to general farming for the risks and outlay incurred. Unfortunately many many farmers disagree with me as to the value of old hens and are contented to rear anything with feathers on to a good old age. In my humble opinion an old hen is worth more dead than alive as she occupies the same space and requires the same attention and also eats the food that is better bestowed on a young and productive pullet when the results are considered. It is true that people differ as to the most profitable year of a fowl, first or second, but there is little doubt as to its third year, because if over half the number of eggs (as is supposed she can lay) are laid in her first and second year, then the other half must be spread out over the remaining portion of her lifetime.

#### THE "IDEAL" TRAP NEST

Why not plan to install a few trap nests in the breeding pens next season? It is the only sure way of selecting the producers from the non-producers and you surely cannot afford to keep a lot of star boarders if you desire to make your poultry pay you. When you go into the poultry business you should aim to have the hens keep you. Are they doing it or are you keeping them? If you will drop a card today to F. O. Wellcome, Box W, Yarmouth, Maine, he will send you some literature that explains the trapnest fully and how these star boarders can be eliminated.

#### HAVE YOU TRIED IT?

Many poultry raisers are securing fine results by using French's Poultry Mustard as directed. It is said to increase egg production by keeping the digestive organs in a healthy condition, to aid fowls in moulting quickly, and to be a great aid to the growing chick. Some of the leading breeders of the country are using it and recommend it very highly. For further information turn to the inside front cover and then write for booklet.

\*\*\* Are you a beginner? If so you should have a copy of "Successful Poultry Keeping." Tells you how to succeed. One dollar the copy \*\*\*





# Chicago Making Plans for a Big Crowd

The Thirty-ninth Annual Convention of the American Poultry Association will be the Biggest, and Most Satisfactory Ever Held

**I**F you miss the 39th Annual Convention of the American Poultry Association this year you will certainly regret it. It makes no difference if you are a member of the association or not, the Chicago Poultry Society and Chicago Association of Commerce invite you to come to Chicago and see what they have in store for you. Attend the meeting this year and we are sure you will become a member of the greatest live stock association in the United States, the "American Poultry Association." Bring the ladies, the babies, your sons and daughters, your uncles, aunts and grandparents. There's plenty of room in Chicago and we will take care of everyone in great manner. Chicago is not a "Flag Station," no trains run through the city, they all stop there, for Chicago is the end of the line, the center of business, enjoyment and recreation. There are thirty-eight railroads terminating in Chicago, representing one hundred thousand miles of railroad lines, forty per cent of the railway mileage of the United States. You can get excellent accommodation all the way from \$1.00 per day up for a pleasant room in a first-class, clean, modern hotel to \$50 per day for the "Bridal Chamber" in leading hotels. There are more first-class restaurants in the central district to the square mile than you will find in any other city, and you can get well cooked meals at all hours and at all prices. You will find the finest and most pretentious amusement parks in the world, you will find theatres that are considered the best and most beautiful in the United States. You will find better bathing beaches and see more people in bathing than you did at Atlantic City. In fact, Chicago offers you everything that all other cities combined have done, with the exception of "Mountain Views." The climate cannot be surpassed during August, for the cool lake



**T**HE hotels of Chicago deserve more than a passing mention because not only of their number, elegance and service, but because they offer so much that is needed and hardly recognized in the general thought of what is required when some great convention is planned. There is in the city of Chicago every possible variety of hotel, with the best equipment, in desirable locations, and adapted to every possible visitor. In the downtown hotels are to be found rooms en suite arranged so that home is at once suggested, and in some of the hotels there are women to care for the needs of women guests. In these hotels are various banquet rooms, large and small, suited for the small as well as the great convention, open air dining rooms, beautiful ball-rooms, where the largest gatherings are elegantly cared for, and private rooms, where those who wish can have a dinner party and be quite as much apart as if in their own homes.

breezes temper the stifling heat waves. Perhaps you did not know that more people from the South spend their vacation in Chicago than at any other place or resort. Think it over, take a vacation and attend the 39th Annual Convention.

Chicago has over thirty miles of water front on Lake Michigan, and with its parks and its suburbs, provides conditions and facilities which make Chicago a city of midsummer charm. Boating, bathing, golf, baseball, all sports easily accessible.

Geographically, Chicago is less than three hours' ride from the center of population of the United States. Its situation on the southern extremity of Lake Michigan has made it the natural transportation center of the country—as a matter of fact the greatest transportation center in the world—and its industrial enterprises thus have the benefit of exceptional transportation facilities both by lake and rail.

Chicago is deservedly a favorite convention city because it is easy of access, delightful for a visit, and if the testimony of convention records can be accepted as reliable, more delightful every time it is revisited. Those who come to summer conventions find the Chicago climate attractive, and there are always facilities for studying those things which most interest aside from convention business, for with its great libraries, art museums, and educational centers Chicago maintains its prestige as a metropolitan city by being fully equipped for every variety of research.

Chicago invites you, and will take care of you in a manner that will be long remembered. The city will be yours, you are our guest and there will be no charge for the many pleasures outlined for this great event. All roads lead to Chicago, the "City Beautiful." Come one, come all. Don't forget the dates, August 8th to 15th, inclusive.

*Reservations may be made at any hotel through E. J. W. Dietz, Secretary of the Chicago Poultry Society, 123 W. Madison St., Chicago, Ill. State desires and your requirements will be attended to.*



# EDITORIAL NOTES AND COMMENT

WILLIAM C. DENNY

— ASSOCIATE EDITOR —

The annual meeting of the American White Faverolle Club will be held in connection with the New York City Palace Show during the week of December 1st. The officers and members of this club are working hard to bring out a large and representative exhibit of this variety. A large list of valuable specials will be offered as an inducement for exhibitors.

—o—

President Woodrow Wilson has appointed J. C. Fishel, senior member of the firm of J. C. Fishel & Son, as postmaster of Hope, Ind. Hope has become very familiar to poultrymen through the advertising of Mr. Fishel's firm and that of his brother, U. R. Fishel, the well known breeder of White Plymouth Rocks. The advertising done by these breeders has really placed the town on the map. It has certainly resulted in a large amount of business both for the express companies and the post-office at that place. Mr. Fishel is deserving of and is receiving the congratulations of his many friends over his good fortune.

—o—

That well known and thriving publication, the *Industrious Hen*, that has been published at Knoxville, Tenn., for the past eleven years, has moved to Louisville, Ky. With the change in location, it will consolidate with *Poultry Ideas*, formerly owned and published by the Blair Young Publishing Co., of Louisville. The "Hen" has long been recognized as one of the leading poultry publications not only of the south, but of the country, and with the new force and inspiration that is expected to come through the consolidation with *Poultry Ideas*, it should exert an even greater force in the future.

—o—

The advance prize list for the 74th annual New York State Fair to be held at Syracuse, August 31-September 5th, offers the largest amount and most valuable list of regular and special premiums that has ever been offered at any regular fall show. According to Superintendent W. H. Manning, the total amount offered in the poultry department is about \$7,000. In the neighborhood of \$1,000 is offered in cash specials and in addition there are numerous cups, and trophies offered by various clubs and prominent individuals. The entry fees are nominal, 50 cents for single birds and \$1.00 for pens. The prizes on most popular breeds and varieties are \$3.00, \$2.00 and \$1.00 in the single or open classes, and \$5.00, \$3.00 and \$2.00 on pens. Premiums on the balance of the breeds are \$2.00 first and \$1.00 second on single entries, \$4.00 first and \$2.00 for second on pens. These same prizes are also offered on Ban-

tams, Turkeys, Ducks and Geese. With these liberal premiums, the finest building in the world erected for poultry exhibitions and the long list of well known judges engaged, Superintendent Manning is looking forward to a record breaking display in both numbers and quality.

—o—

E. B. Thompson's 1914 Special Sale List of "Imperial Ringlet" Barred Plymouth Rocks lists 76 bargains in males and females, both exhibition and breeding stock, including numerous specimens that are related to Mr. Thompson's New York winners.

In a letter from Mr. Thompson he says: "This is an opportunity for anyone who desires to obtain the very best bred Barred Plymouth Rocks to obtain them at very low prices. It is the greatest opportunity that I have ever offered to persons who desire birds or eggs of this leading and popular breed of Standard-bred poultry".

In addition to the reduced stock prices, announcement is made that from June 10th until December 1st, "Ringlet" eggs from Mr. Thompson's best matings will sell at one-half the regular prices. Those who have not had a copy of this attractively printed and valuable bargain price list should send for a copy.

—o—

L. C. Byce of Petaluma, Calif., who poultrymen in general expected would be appointed as Superintendent of the poultry department of the Panama-Pacific Exposition has announced that he will be unable to accept the position. The work of organizing the Panama-Pacific Poultry Exhibit is a big undertaking and Mr. Byce is of the opinion that his numerous business interests would prevent him from accepting the heavy work involved.

With Mr. Byce's withdrawal, renewed interest is being taken in the candidacy of Henry Steinmesch of St. Louis, Mo. Mr. Steinmesch was chairman of the American Poultry Association Committee that co-operated with the management of the St. Louis World's Fair in organizing and handling the poultry display of that exhibition. As a breeder of Silver Laced Wyandottes, he has been prominent before the poultrymen of the country for more than 30 years. He has always taken an active part in the poultry exhibitions held in St. Louis, and is a prominent manufacturer of poultry foods and poultry supplies. In addition to numerous offices in specialty clubs and poultry organizations he was recently elected as member of the Executive Committee of the American Poultry Association. The "powers that be" will make no mistake to appoint Mr. Steinmesch. He is well qualified both in ability and experience.

The following letter from F. M. Prescott of Riverdale Poultry Farm, Riverdale, N. J., will be of interest to A. P. W. readers:

"Please accept my hearty thanks for your good words in the June number of the A. P. W. about the Light Brahma Club. It is just such comments as this as will help along the work we are doing and I hope by January 1st, the Brahma Club will be one of the most active and important of the specialty clubs. Just now it is growing healthily and the work we are doing will show still better results this fall.

"Do you know this has been a very fine business season for eggs and chicks and breeders? My business has more than doubled and have had to turn away a lot of business at that. On the other hand this has been the worst hatching season in a decade, due to the severe weather of February and March. Fertility was high but weak, and chicks died in the shell. This has been the experience from Canada to Virginia.

"This ought to be mentioned as many beginners think their methods are at fault when the trouble has been from the 'Almighty', and all have been effected alike. The 'trouble hunters' of the mammoth incubator companies who visit all the big plants can tell some interesting facts in this line. Such statements ought to be printed for the benefit of the amateurs'.

Mr. Prescott is one of the "live wires" who is doing his share to put the Light Brahma back among the list of popular breeds. Though a comparatively young man, he has had years of experience in breeding Standard-bred poultry and it is this experience that has enabled him to so successfully produce and exhibit birds of his own breeding that have won the coveted blue ribbons during the past season at leading eastern shows.

—o—

The past hatching season has been a discouraging one for all concerned. While it is customary to expect reports of poor hatches now and again no matter how good the hatching season, it is seldom that there has been such a general complaint as about this season's hatches during February, March and April. Buyer and seller alike have complained with a frequency and emphasis that we have not heard in several seasons. The purchaser of hatching eggs has blamed the breeders, while the latter annoyed with the complaints due to causes that they did not control, have blamed the former for improper handling of the eggs that they received and a lack of knowledge regarding incubation.

The fact of the matter is that neither the breeder nor the buyer have been to blame any more than in former years. Those who have studied conditions and attempted to explain the cause for the lack of success have laid it to the weather conditions that prevailed from the middle of January until early April. Early in the season everything started off in a most approved fashion. During December and early January hens laid well and the eggs used for incubation proved fertile and pro-



duced strong chicks. Then came the cold weather that lasted from the middle of January until the first of March, in turn to be followed by wet weather that continued until early April which made it necessary to keep breeding stock in-doors for a longer period than can safely be done if satisfactory results are to be expected, whether egg production either for market or hatching purposes is the purpose. During this period hens did not lay regularly and fertility was very irregular, in some cases being up to the usual average while in others it was decidedly lacking. But even fertile eggs failed to hatch in a satisfactory manner and it is quite safe to say that there will be a great scarcity of early chicks suitable for the fall and early winter shows—and what is equally important it does not seem that there will not be enough pullets sufficiently matured to provide the average egg supply of next November and December.

—o—

The management of the Panama-Pacific International Exposition has issued a preliminary classification and rules for live stock exhibits to be held during the fall of 1915. A fund of \$175,000 will be set aside to pay the premiums in the various divisions and classes of live stock and poultry. The fund is divided as follows:

Horses, mules and asses.....\$50,000  
Cattle ..... 50,000

Sheep and goats..... 25,000  
Swine ..... 25,000  
Poultry, pigeons and pet stock.. 12,500  
Carloads—Cattle, sheep, swine.. 7,500  
Dogs ..... 5,000

The exhibition dates or show periods for the several groups for animals and poultry in competition for premiums will be as follows:

Horses, mules and asses—September 27 to October 9.  
Cattle—Beef and dairy—October 12 to October 24.  
Sheep and swine—November 3 to November 16.  
Car lots of live stock—November 11 to November 14.  
Dogs—November 16 to November 18.  
Poultry and pigeons—November 20 to November 25.  
Cats—November 27 to November 29.  
Pet stock—November 29 to December 1.  
Children's pets—December 1 to December 3.

This may be subject to slight changes.

The following special rules for the poultry department regarding coop fees, premiums, etc., have been adopted:

The Universal Poultry Show to be held by the Panama-Pacific International Exposition will be open for the reception of exhibits on Thursday, November 18, 1915, and the competition for premiums will begin on Saturday, November 20, and close on Thursday, November 25, 1915.

No entry fees will be charged on exhibits. A nominal fee of \$1.50 for each single specimen and \$4.00 for each pen will be charged to cover the expense of receiving, cooping, feeding, watering, exhibiting and returning the birds.

Each exhibitor will be permitted to enter and present for award not to exceed four entries in any single competition.

Breeding pens shall consist of one

male and four females. Birds entered in the single classes cannot compete in the breeding pens.

Unworthy or unhealthy specimens will be excluded from competition and from the show.

On all large breeds of poultry recognized in the American Standard of Perfection and including the following certified breeds: Blue and Jubilee Orpingtons; Red, Speckled, Light and Jubilee Sussex; White Houdans; American Reds; Single Comb Buff Minorcas; Rose Comb White Minorcas; Red Pyle Leghorns; Silver and Golden Campines; White Runner, English Penciled and Orpington Ducks, Turkeys, Guineaes and Pheasants, the following prizes will be paid:

Cock, hen, cockerel, pullet, to each five prizes—1st prize, \$5.00; 2nd prize, \$4.00; 3rd prize, \$3.00; 4th prize, highly commended; 5th prize, commended.

Breeding Pen, to each five prizes—1st prize, \$10.00; 2nd prize, \$6.00; 3rd prize, \$4.00; 4th prize, highly commended; 5th prize, commended.

On all breeds of Bantams recognized in the American Standard of Perfection the following prizes will be paid:

Cock, hen, cockerel, pullet, to each five prizes—1st prize, \$2.00; 2nd prize, \$1.50; 3rd prize, \$1.00; 4th prize, highly commended; 5th prize, commended.

Breeding Pen, to each five prizes—1st prize, \$4.00; 2nd prize, \$3.00; 3rd prize, \$2.00; 4th prize, highly commended; 5th prize, commended.

On Pea Fowl, one male and not less than four females—1st prize, \$35.00; 2nd prize, \$25.00; 3rd prize, \$15.00; 4th prize, highly commended; 5th prize, commended.

Ostriches (one male and not less than four females)—1st prize, \$100.00; 2nd prize, \$75.00; 3rd prize, \$50.00; 4th prize, highly commended; 5th prize, commended.

In a statement regarding the poultry display, announcement is made

# RHODE ISLAND REDS

The Most Complete, Authentic and Attractive Book on this popular Breed Ever Published (80 pages and cover)—Historical, Instructive and Beautifully Illustrated, it tells the History and Origin, How to Select and Mate Birds for the Breeding Pens, as well as How to Judge Them Both by Comparison and Score Card; also Much Useful Information Along Commercial Lines.



D. E. HALE, Editor

Well Known as Breeder, Judge, Lecturer and Writer Who Has Specialized on the Reds for Years.

FULLY ILLUSTRATED BY

A. O. Schilling

F. L. Sewell

I. W. Burgess

## CONTENTS

History of Rhode Island Reds.  
Standard-Bred Rhode Island Reds.  
Proper Mating of Rhode Island Reds.

Rhode Island Reds as a Fanciers Fowl.  
Rhode Island Reds as a Utility Fowl.  
Some Successful R. I. Red Farms.

Judging Rhode Island Reds by Comparison and Score Card.

## CONTRIBUTORS

The contributors to this book are the acknowledged leading breeders and judges of the country. They include such men as Tompkins, Harris, Almy, Buschmann, Sibley, Rich, Miles, Harrison, Kauffmann & Windheim, Burleigh, Crowther Coulter, Coe, Scott, Carver, Ricksecker, Smith, Hartley, Coffin, Dennis, Clarke, Drevenstedt and Denny.

## Color Plate

Made from ideal R. I. Red feathers selected and arranged by Artist Sewell—said to be the best thing of the kind ever published. Text and illustrations are brought down to date to conform to the 1910 edition of the American Standard of Perfection.

75 cents, postpaid  
50 cents each.

With a years subscription to A. P. W. \$1 00. With three years' subscription, \$1.50. Mailed free for three subscriptions at

American Poultry Publishing Company,

158 Pearl Street,

Buffalo, N. Y.



that plans are being made to provide for an exhibition of at least 12,500 birds in addition to turkeys, ducks, geese and pigeons, and such an exhibit is within the range of a possibility, for supplementing the regular prizes and the prestige and advertising value that will go to the winners, there will be in addition thousands of dollars offered by the various state and provincial governments duplicating the exposition prizes and sharing the exhibitors' transportation expenses. There will also be valuable specials offered by the leading specialty organizations of the country.

In addition to the competitive poultry display, plans are being made for an International Egg Laying Contest that will be conducted on the grounds of the Exposition beginning November, 1914, and continuing for 12 months. This contest will be in charge of the Poultry Division of the University of California. There will also be a permanent poultry educational exhibit to be made up of the different varieties of poultry, modern poultry appliances, etc., to be on display from February 20, 1915, until September 20th, when it will give place to the live stock exhibits that begin at that time.

The American Poultry Association Quarterly Bulletin for June gives notice of the filing of petitions for admission to the Standard of the following breeds and varieties:

Red Sussex, Light Sussex, Speckled Sussex, English Penciled Runner Ducks, Buff Orpington Ducks, Pearl Guineas, S. C. White Leghorn Bantams, Barred Minorcas, Silver Campines, Golden Campines, R. C. White Orpingtons, R. C. Buff Orpingtons, R. C. Black Orpingtons, R. C. White Minorcas, R. C. Anconas, Thoroughbred Games, Salmon Faverolles, Old English Games, Bearded White Booted Bantams, Bearded and Non-bearded Mille Fleur Booted Bantams, Bearded and Non-bearded Black Booted Bantams, Bearded and Non-bearded Spangled Black Booted Bantams and Gray Japanese Bantams and White Houdans.

The following applications for American Poultry Association judges license have been filed with Secretary S. T. Campbell, and will be acted upon at the next annual meeting to be held at Chicago, August 10-14:

#### GENERAL LICENSE

C. A. Bloss, Owosso, Mich.—Endorsed by James A. Tucker, Thos. S. Falkner, H. H. Coburn, W. M. Wise, R. V. Otto.

Frank W. Breed, College Place, Wash.—Endorsed by Harry H. Collier, J. H. Drevenstedt, W. S. Russell, James A. Tucker, G. D. Holden, Chas. McClave.

James A. Daley, Mohawk, Mich.—Endorsed by Wm. A. Halbach, Frank W. McKenzie, Earl Hemenway, Geo. M. Wells, James A. Tucker, W. M. Wise, D. T. Heimlich, F. E. Harrison.

A. H. Emch, Toledo, Ohio—Endorsed by L. C. Taylor, Frank L. Platt, Chas. E. Cram, J. E. Gault, D. D. Whittaker,

Chas. McClave, J. A. McIntosh, A. F. Kummer.

E. H. Huffman, LaCrosse, Wis.—Endorsed by F. H. Shellabarger, W. H. Laabs, James A. Tucker, Chas. V. Keeler, T. J. Rountree, E. G. Roberts, Geo. W. Hackett, R. V. Otto.

A. H. Kochensparger, Junction City, Ohio—Endorsed by Ira C. Keller, H. M. Close, Eugene Sites, Chas. McClave, F. C. Sites.

W. H. Laabs, Waupaca, Wis.—Endorsed by J. M. Rapp, Geo. M. Wells, G. D. Holden, Reese V. Hicks, Chas. McClave.

Nat E. Luce, Los Angeles, Cal.—Endorsed by Wm. C. Denny, C. G. Hinds, A. H. Currier, J. H. Drevenstedt, W. M. Coats.

Oscar Nelson, Coeur d'Alene, Idaho—Endorsed by Miller Purvis, James A. Tucker, W. M. Coats, G. D. Holden, J. C. Clipp, W. G. Warnock, B. F. Keeney, Elmer Dixon, Harry Collier.

Russell F. Palmer, Lincoln, Nebr.—Endorsed by Reese V. Hicks, F. H. Shellabarger, V. O. Hobbs, W. S. Russell, Adam Thompson, C. H. Rhodes, Joseph Dagle, Chas. V. Keeler, W. C. Ellison, E. G. Roberts, Ralph Whitney.

Louis A. Stahmer, Forest Park, Ill.—Endorsed by H. P. Schwab, D. E. Hale, Chas. V. Keeler, C. P. VanWinkle, H. H. Coburn, C. W. Zimmer, F. E. Harrison.

B. O. Swain, Zionsville, Ind.—Endorsed by Thos. M. Campbell, W. W. Zike, Florence Forbes, Chas. McClave, Chas. I. Fishel.

Tom H. Woods, Fayette, Mo.—Endorsed by V. O. Hobbs, C. A. Emery, J. A. Leland, C. H. Rhodes, E. C. Branch, D. T. Heimlich.

#### SPECIAL LICENSE

E. M. Campbell, Columbus, Ohio, (all Minorcas)—Endorsed by Joe Coleman, J. E. Gault, Oscar Miles, Ira C. Keller, Chas. E. Cram, Chas. McClave, L. C. Taylor.

L. G. Cary, Trimble, Ohio, (American & Mediterranean Breeds)—Endorsed by S. G. Case, Joe Coleman, W. W. Zike, L. C. Taylor, Chas. E. Cram, J. E. Gault, James Corfman, Chas. McClave.

S. O. Lindgren, Kingsburg, Cal. (Mediterraneans)—Endorsed by C. G. Hinds, Henry Berrar, G. D. Holden, A. H. Currier, A. G. Goodacre, J. H. Drevenstedt.

H. C. Miller, Akron, Ohio, (Partridge P. Rocks, Orpingtons)—Endorsed by S. G. Case, Claude E. Coe, Chas. E. Cram, J. H. Busch, D. D. Whitaker, Chas. McClave.

Charles G. Pape, Ft. Wayne, Ind (Minorcas)—Endorsed by Theo. Hewes, Wm. C. Denny, James A. Tucker, O. L. McCord, H. H. Coburn, W. Theo. Wittman, Harry H. Collier, Richard Oke, Chas. McClave, Chas. I. Fishel, A. F. Kummer.

Alfred D. Robinson, Point Loma, Calif. (Barred Plymouth Rocks)—Endorsed by J. W. Whitney, A. G. Goodacre, J. H. Drevenstedt, Wm. F. Brace, J. C. Williams.

James W. Simmons, Geneva, O. (Rhode Island Reds)—Endorsed by H. H. Coburn, Geo. H. Burgott, Eugene Sites, Chas. McClave, F. C. Sites, Oscar E. Miles, D. D. Whittaker, Wetherell H. Card.

Geo. B. Young, Columbus, Georgia (Mediterraneans)—Endorsed by Chas. F. Cornman, G. W. Ewald, S. J. Harwell, H. H. Verdery, F. J. Marshall.

A number of important amendments or changes for the 1915 edition of the Standard have been offered by interested members and the Revi-

sion Committee. These changes will come before the 39th annual convention to be held at Chicago. The list as published in the American Poultry Association Bulletin is as follows:

#### Symmetry by Frank E. Hering—

I hereby petition that the term "Symmetry" be reinstated in the scale of points, official score card, and glossary of technical terms, and that the scale of points be readjusted to conform.

#### By Eugene C. Smith—

I move that the weight of Leghorn pullets be changed from three (3) to three and one-half (3½) pounds, so that the weights for Leghorns will read as follows: Cocks, 5½ pounds; hens, 4 pounds; cockerels, 4½ pounds; pullets, 3½ pounds.

#### Committee Petition—

In all males of Partridge varieties—Fluff, black.

#### Light Brahma Club offers the following:—

Changes in Light Brahma male—back, surface color, white; cape, black and white; saddle, white, except feathers covering root and sides of tail which should be white with a narrow V shaped black stripe at end of feathers tapering to a point near the extremities.

Light Brahmas—In description of male neck the word silvery to be eliminated wherever it occurs in connection with the word white.

Light Brahma Club petitions that the under color be bluish-white or slate. Female: change in back disqualifications.

#### Committee—

The Committee asks for same changes in all Columbian varieties as offered in Light Brahmas.

#### International Black Wyandotte Club—

Petitions that no change be made in color or legs and color of eye as described in the present Standard. By H. R. Bristol, Secy.

#### By request of National Bantam Association—

Silkie to be put in Bantam Class.

#### By A. O. Schilling—

Suggested change in color description of tail coverts on Black Tailed Japanese female should read, coverts black, edged with white; tail black.

#### Committee Petition—

Anconas—Male, back of good length sloping slightly downward from shoulders to saddle, then rising with a concave sweep to tail.

#### Committee Petition—

In any breeds having weight clauses, except Turkeys and Bantams, a specimen falling more than two pounds below Standard weight, shall be disqualified.

#### By L. H. Reade—

Amend the Standard of Perfection as follows: Under the heading "Plymouth Rocks", sub-head, "Standard Weights"—amend by adding the words "Except Barred Plymouth Rocks", after the words, "Standard Weights". Under the heading, "Plymouth Rocks", sub-head, "Barred Plymouth Rocks", amend by inserting between the paragraph on disqualifications and the shape description the following:—"STANDARD WEIGHTS, Cock, 9 lbs.; Hen, 7 lbs.; Cockerel, 8 lbs.; Pullet, 6 lbs."

#### John Kriner requests—

That the Frizzles be placed back in the Standard.



## BUFF ORPINGTONS

Eggs at half price. Stock quoted far below its real value—40 Cocks and 200 Hens offered singly or in pairs, trios, pens or mated yards. These are a part of our 1914 breeders and worth while for you to own. Have you seen The Orpington Fashion Plate Book? It's crowded with poultry talk, beautifully illustrated, 56 pages. FREE.

A. E. MARTZ & SON, Buff Orpington Specialists,

## The Fashion Plates

Box E, ARCADIA, IND.



**Dr. H. P. Clarke requests—**

That the Cornish fowls be placed back in the Oriental Class, or that all Oriental fowls be placed in the English Class.

**By F. H. Stoneburn—**

That the Standard include the dates upon which each breed or variety was admitted to the Standard.

—o—

An event that should prove of special interest to poultry raisers, especially those of New England and neighboring states, is the Poultry Convention to be held at the Massachusetts Agricultural College, Amherst, Mass., July 22-24 inclusive.

Seldom is such an unusual opportunity presented for the study of problems of poultry keeping and every poultry raiser within a radius of five hundred miles should plan to be present and not only hear the lectures but take part in the discussions.

Last year these meetings were attended by over five hundred persons, making it one of the largest gatherings of its kind ever held in this country. This has encouraged the College authorities to put forth extra efforts in preparing a program for the coming convention with the result that they have secured some of the most prominent investigators and poultrymen in the United States to address these gatherings. The list includes such well known authorities as Dr. Raymond Pearl of the Maine Experiment Station; Prof. H. R. Lewis of New Jersey; Harry M. Lammon, U. S. Dept. of Agriculture; Daniel Lambert, Maurice F. Delano and others.

In speaking of the coming meeting Prof. Graham states:

"We are preparing the 1914 program with the belief that the number attending this year will be double that of last. It is very gratifying to this department to present to the poultry keepers of this state a program which unites in a common cause, the Massachusetts Agricultural College. The Massachusetts State Poultry Association and the Massachusetts State Branch of the American Poultry Association. The co-operation of all state organizations has enabled us to place before the public a much better program than would be otherwise possible. Neither expense, time nor energy have been spared in its preparation. It has been our aim to place upon it the very best men obtainable in this country".

To give A. P. W. readers an idea of the very excellent program prepared it is herewith appended:

**WEDNESDAY, JULY 22**

- 1:30 P. M.—Address: Diseases of Young Chicks—Dr. George F. Gage, Department of Veterinary Science, M. A. C.  
 2:30 P. M.—Address: (a) The Preservation and Use of Poultry Manure. (b) Crops a Poultryman Can Grow Profitably—Professor S. B. Haskell, Department of Agronomy, M. A. C.  
 3:00 P. M.—Address: Advantages in Raising Fruit in Connection with Poultry—Professor F. C. Sears, Department of Pomology, M. A. C.  
 3:30 P. M.—Visit to the Poultry Plant.  
 7:30 P. M.—Discussion: The Agricultural College and the Poultry Industry.  
**From the Standpoint of the College:** Professors Hurd, Foord, Brooks, Morton, Ferguson and Graham.  
**From the Standpoint of the Poultryman:** All poultrymen present. Leader, Dr. N. W. Sanborn, Holden, Mass.

- 8:30 P. M.—A Free-For-All Discussion.  
 (a) What is a Utility Bird?  
 (b) Has the Large Intensive Poultry Farm Come to Stay?  
 (c) Can Utility Poultry be Standardized to the Same Extent as Standard Bred Poultry?

**THURSDAY, JULY 23.**

- 9:00 A. M.—Address: Some Results of Our Experimental Work that are of Practical Value to the Poultryman—Dr. H. D. Goodale, Biologist, Department of Poultry Husbandry, M. A. C.  
 10:00 A. M.—Address: White Diarrhea in Young Chicks. (Some recent experimental data). Professor W. F. Kirkpatrick, Connecticut State Agricultural College, Storrs, Conn.  
 10:30 A. M.—Adjourned Session of Massachusetts State Poultry Association. President George F. Eastman in the chair.  
 Address: A Strong State Poultry Association and What It Can Accomplish—George V. Smith, Secretary Connecticut State Poultry Association.  
 11:15 A. M.—Address: The Wise Use of State Money in the Development of the Poultry Industry—Hon. Wilfrid Wheeler, Secretary Massachusetts State Board of Agriculture.  
 1:30 P. M.—Address of Welcome: President Kenyon L. Butterfield.  
 Response: W. B. Atherton, Sec. Boston Poultry Show Assn.  
 Address: The State as a Factor in the Development of Such Agricultural Industries as Poultry Culture—Governor David I. Walsh.  
 Address: A Poultry Farm in Massachusetts—The Farm—The Project The Buildings—The Profits. Illustrated with Charts, Drawings, etc.—Professor J. A. Graham, Department of Poultry Husbandry, M. A. C.  
 Address: Opportunities in Poultry Keeping for the Farmer—Harry M. Lammon, Senior Poultry Husbandman, U. S. Department of Agriculture, Washington, D. C.  
 The Social Hour—A General Handshake.  
 7:30 P. M.—Stereopticon Lecture, Poultry Feeding—Professor J. C. Graham.  
 8:00 P. M.—Session of the Massachusetts State Branch of the American Poultry Association—President Maurice F. Delano in the chair.  
 Opening Remarks—The Breeding of Standard Bred Birds as a Means of Developing the Poultry Industry in Massachusetts—President Maurice F. Delano, Proprietor of Owen Farms.

Address: The Breeding of Pure Bred Poultry Looked at from the Standpoint of the Modern Science of Genetics. Dr. Raymond Pearl, Department of Biology, Maine Agricultural Experiment Station, Orono, Maine.

**FRIDAY, JULY 24**

- 8:30 A. M.—Address: Poultry House Construction—Professor H. R. Lewis, New Jersey Agricultural College, New Brunswick, N. J.  
 9:30 A. M.—Address: How to Select for Breeding Purposes the Ten Best Hens or Pullets from a Flock of 100—Mr.

Whitney & McEwan, breeders of  
**"LORDS BUFF WYANDOTTES"**  
 EGGS from the same matings as was used for ourselves \$5 and \$10 per setting. Send for mating list and winnings at the Big Albany, 1913, Show.  
**WHITNEY & McEWAN, ALBANY, N. Y.**

**ROSE COMB WHITE LEGHORNS BLACK WYANDOTTES**  
**BUFF ROCKS COLORED MUSCOVY and FAWN DUCKS**  
 208 prizes at large exhibits: Stock and Eggs, Free Circular.  
**LOUIS H. PERRY, Route 7, CLAY, N. Y.**

**MEIRS' S. C. BROWN LEGHORNS**  
 First prize winners at Madison Square Garden, Philadelphia, Allentown, Hagerstown, Scranton, Williamsport and other leading shows. Eggs from pens containing winners \$5 per set.  
**C. O. MIERS, BANGOR, PA.**

**OAK GROVE S. C. WHITE LEGHORNS**  
**POULTRY FARM**  
 Stock and Eggs for sale, also have some fine birds for sale. Write us for mating list, also our winners. **OAK GROVE POULTRY FARM**  
 Surfus & Stage, Props., **KIMMELL, IND.**

**Woodcrest Partridge Wyandottes**  
 My Catalogue tells of their unrivaled record at Madison Square Garden and Boston.  
**Chas. H. Wood, 340 Main St., Worcester, Mass.**

**BIG PROFITS IN CAPONS**

Why sell your surplus cockerels for 50 to 75 cents when they will bring \$2.00 to \$2.50 as capons? Illustrated instructions in our book make caponizing so easy that a 10 year old child can successfully perform it. Tells where to get reliable instruments; when and how to operate, how to feed, care for and fatten, when and where to market to get the highest prices, etc. Price only 50 cents. Money back if you want it. Capon time is here. Send today.

**American School of Poultry Husbandry, BOX 18, MOUNTAIN GROVE, MO.**

**PARTRIDGE ROCKS**

**AMERICA'S PROVEN CHAMPIONS**

The best breeding stock and greatest winners always for sale. Eggs in season.

**BIRD BROS.,**

Box 14,

**MEYERSDALE, PA.**

**JIMCRACK HOUDANS**

**WINNERS TORONTO, GUELPH and BOSTON. Illustrated Mating List.**

**HARRY TAYLOR, 82 Howard Park Ave., TORONTO, ONT.**

**The World's Best---HARVARD REDS---Rhode Island Reds**

Sold on modern, progressive, co-operative plan—get out of a rut. Special sale of breeders now on. Investigate. Give us a trial.

**UNITED BREEDERS, Inc.,**

334 Pond Street,

**SO. BRAINTREE, MASS.**

**Two Thousand Choice White Leghorn Pullets**

The poultry crop is short and if you want pullets now is the time to place your order.

**PULLETS. Three Classes Guaranteed To Lay**

**In September or Before. In October or Before. In November or Before.**

This is the first time we have offered any such number of pullets to the public. Book your order now if you wish to get the birds in the laying houses on time. Our guarantee is back of these pullets and we have a farm with a reputation.

**SUNNY BROOK FARM, By Chas. D. Cleveland, Box W, EATONTON, N. J.**

**DARK CORNISH GET THE COIN**

**DR. W. A. LOW, Importer and Breeder,**

Low's "Ideal" Dark Cornish are winners and will win for you Choice exhibition cockerels and pullets, massive, low built, heavy boned birds. Fully matured and fit for keen competition. Write your wants.

**CATONSVILLE, MD.**



D. J. Lambert, Rhode Island Agricultural College, Kingston, R. I.

10:00 A. M.—The Roast Chicken—A Demonstration—Professor Laura Comstock, Department of Economics, Extension Service.

10:50 A. M.—Demonstrations at Poultry Plant.

1. Caponizing—H. D. Smith, Rockland, Mass.

2. Killing, Picking, Dressing, etc.—Mr. Kelley, Foreman of College Poultry Yards.

3. Making Post-mortem Examination of Diseased Specimens, etc.—Dr. H. D. Goodale.

## SORE HEAD AND ROUP

A writer on Texas Farm and Ranch states his experience in treating sore-head and roup as follows:

I have found Epsom salts and cream of tartar a sure cure for sore-head in old and young poultry. For 50 or 60 chickens get 25 cents worth each of salts and cream of tartar. Put about half a cup of salts and two tablespoonfuls of cream of tartar in a quart of hot water so it will melt better and fill up with enough water to mix about two gallons of wheat bran or any dry feed. I clean hen house well and scatter plenty of dry lime, shut up chickens at night and in morning feed the bran or feed mixed with the water and salts and cream of tartar. Feed this amount eight and morning for three days, then feed mornings only.

In one week the sores will be healing and in 10 days only the clean white spots will tell where the sores have been. It is a sure cure. Just let the sores alone and help nature to get rid of them with the salts and cream of tartar. I do not use the cream of tartar after the third day.

I have cured roup by the same method; if the chickens will not eat the feed good, use a little less salts next time. It is much better given in feed, for if put in water they will taste it more and not get enough in to the system to do the work.

### DR. GLOBE

Dr. Globe's prescription on page 706 is a good one and should be investigated by all progressive poultry raisers. Better look it up and get full particulars.

## THE SEX OF EGGS

Referring to the theory that eggs wrinkled at the narrow ends produce cockerels, an English writer says, to the students of embryology this fallacy is at once present. For the first few days the chicken is sexual, from then to about the seventh day it is distinctly hermaphrodite, and contains within itself the elements of both sexes. After this stage it diverges in one direction, one set of organs developing and the other diminishing, according to whether the germ is going to produce a male or female. So that if the germ had a living consciousness it would not know at the sixth day which sex it would ultimately be.—Ex.

## DUTTON'S REDS

E. M. Dutton, Newfane, N. Y., Rhode Island Red specialist, announces that he has the finest lot of young stock this season that he ever raised. This season's crop are all bred from his New York and Buffalo winners and are now growing to vigorous maturity on free farm range under conditions that are most favorable for the development of high class specimens. He further states that none of this stock will be disposed of until after November first, when 300 mature chicks will be ready for customers' selections. This plan of Mr. Dutton's of not disposing of any stock until full maturity is reached is a good one and protects both the purchaser and himself. Better write to-day and let him tell you about this stock.

## FISHER DOES WELL

In a recent letter A. Fisher, Canastota, N. Y., reports a very successful season. Says Mr. Fisher: "I have had a very good season, having started my incubators March 10th and up to date have incubated 19,400 eggs. Still have five running and have sold all the chicks I could hatch, in fact, have not been able to reserve as many for myself as I should have liked too. Mr. Fisher breeds S. C. White Leghorns, White and Fawn and White Indian Runner Ducks, and makes a specialty of eggs for hatching and day-old chicks and ducklings. As the season is now closed he has some choice breeders for sale and will be pleased to hear from A. P. W. readers.

\*\*\* Saves you dollars—Our Clubbing Catalogue—Send a card today, sure \*\*\*

## BYERS' ORPINGTONS

During this month only C. S. Byers, the Orpington specialist, Hazelrigg, Ind., is offering some exceptional bargains in breeding stock and future show birds. These July specials are fully described in a special price list that will be sent free to all readers who mention this paper when writing.

## Crockford's Real Indian Runners

The big winners at this season's shows.

CROCKFORD, BRISTOL, R. I.

## BUTTERCUP

EGGS Fertility Guaranteed. Loring (large egg) Strain. Circular free For Hatching. J. S. McBride, BEVERLY, O.

## "O.K." Poultry Litter

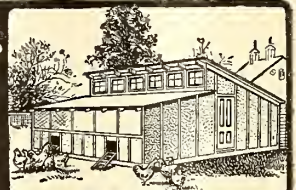
Cheaper to use and better than Straw, Clover, Alfalfa, Sawdust, Shavings, etc. In Coops, Laying Houses, Colony Houses and Scratching Pens "O.K." Litter dries up the droppings so that the house is always dry, clean, sweet-smelling and sanitary and needs cleaning out only once in 3 or 4 months.

"O.K." Keeps the BROODER Clean—Dry—Sweet. One lot of "O.K." Litter lasts until the chicks have out-grown the brooder without once cleaning out. "O.K." Litter will not burn. Lice will not come where it is used. Tell us how large your house is—we will tell you how much "O.K." Litter you will need. FREE Write today for sample of "O.K." Poultry Litter and a copy of Our New Poultry Book.

O. K. Co. 157 WATER ST. New York DEPT. 172

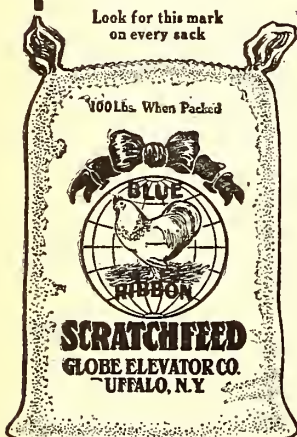
"O.K." Trade-Mark is on every bale of the genuine

U.S. Gov't Model Poultry House \$78<sup>00</sup>



\$78.00 buys all the material for this Chicken House, planned by the Dept. of Agriculture. Size, 20x14 feet. Our price includes lumber, mill work, roofing, hardware, wire netting, staples and painting material. Other designs of outbuildings and 116 designs of residences shown in our "Book of Modern Homes No. 9945A"—free on request. Sears, Roebuck and Co., Chicago, Ill.

## Dr. Globe says: "I always prescribe Blue Ribbon Developing Feed — and — Blue Ribbon Growing Mash in the case of backward or late hatched Pullets and Cockerels"



Dr. Globe's prescription is being followed by hundreds of experienced poultrymen. These feeds make strong, vigorous cockerels and evenly feathered, well developed pullets. They are *only two* of the many *Blue Ribbon Feeds* that we make for all *ages* and *kinds* of poultry.

Any good dealer can supply you. If he doesn't carry our stock, send us his name and write us for "Descriptive Booklet" and Price List.

Globe Elevator Co., 91 Kentucky St., Buffalo, N. Y.

Dealers and Quantity users write for special freight paid prices.



DR. GLOBE



## ARE STANDARD WEIGHTS TOO HIGH

THE BEST RECORDS AT LAYING CONTESTS ARE MADE BY BIRDS UNDER STANDARD WEIGHT

It has been claimed by many breeders, at different times, that the loss of popularity of many of our breeds is directly chargeable to the craze for size. The production of the egg has been decreased by the increase in weight, so 'tis claimed by the advocates of a reduction in weight. According to observation of those in charge of the egg laying contest at Mountain Grove, Mo., their claims are well founded. In the monthly report for May, Director Quisenberry makes the following statement:

"We find that 90 per cent. of the proven best layers by the trap nest are the smallest birds", is a statement just made by one of our greatest poultrymen and one of our best students of the problems of egg production. The weights of the birds entered in the National Egg Laying Contest conducted at this place for the past three years and the egg records all indicate that this statement is absolutely true. No matter what the variety may be, if a pullet of that variety makes a good egg record, upon weighing her we find she is usually from  $\frac{1}{4}$  to 3 pounds under Standard weight. "Lady Show-you", the White Plymouth Rock hen which laid 281 eggs in our first contest, only weighed six pounds, being  $1\frac{1}{2}$  pounds under Standard weight. "Missouri Queen", the R. C. White Leghorn pullet which led last year and made a record of 260 eggs, only weighed  $2\frac{3}{4}$  pounds. While there is no Standard weight for this variety, yet this pullet was the smallest of 36 pullets of this variety which were in the contest.

The highest record we have ever had made by a Barred Plymouth Rock, was by a pullet  $1\frac{1}{4}$  pounds under weight. The Black Langshan which made the best record was nearly 2 pounds under; White Orpington, 2 pounds under; White Wyandotte, 1 pound under; Silver Wyandotte,  $\frac{3}{4}$  pound under; Buff Wyandotte,  $\frac{1}{2}$  pound under; Buff Orpington, 2 pounds under; Black Orpington, 2 pounds under; Black Minorca,  $1\frac{1}{4}$  pounds under, and so on through almost the entire list of varieties. On the other hand the majority of the pure bred hens which make the poorest egg records are up to Standard weight or considerably over, as a rule. Not more than 10 to 25 per cent. of the best laying pullets of any variety are ever up to Standard weight. During the past three years we have had birds from several hundred breeders, and our experience is that this is usually true, no matter what variety it may be or from what breeder they may come.

With dairy cows, the best producing Jerseys and Holsteins are not of the beef type. One of the leading dairy experts of this country once said to me when showing me his high producers, "These are our very best cows, but it sometimes disgusts me to hear

visitors criticise them and make uncomplimentary remarks about these cows, and then compliment our heavier, fatter dairy cows of the beef type which give but very little milk or butterfat".

Can it be that we have our Standard weights on some varieties a trifle too high? We know of one quite prominent breeder of Barred Plymouth Rocks in this state who has often bragged about having a strain of Rocks that were from a pound to three pounds above Standard weight. That same breeder is now disposing of his entire flock because they do not lay enough eggs to pay the cost of production. We think it best to have the Standard for all things quite high for the per cent. of those who reach their ideals is quite small. We don't advocate breeding small birds, but we do think we can overdo the thing and ruin all chance of profitable production by going to the other extreme. Simply because a hen or pullet was a pound or two underweight and was a good producer, healthy and vigorous, I would certainly not discard her from my breeding pens. It might be well to give this matter some thought.

\*\*\* A dollar saved is a dollar earned.  
Earn a dollar by sending your order  
for magazines to us \*\*\*

**EVERGOLD BUFF DOTTES** Elegant illustrated methods of feeding and breeding Buff Wyandottes, only 20 cents. Price list and mating list free

**ROCKY RUN FARMS,**  
W. G. MARSHALL, Prop.

**Box 40, NORTHFIELD, OHIO**  
GERALD WILLIAMS, Mgr. Poultry Dept.

**CHAMPION ROSE COMB BLACK MINORCAS**

Winners of the Blue at New York, Scranton, Chicago, Toronto and London. We offer all old stock for sale after June first. Write for prices they will surprise you. Eggs half price after May 20.

R. SWARTOUT,

R-2.

CAINSVILLE, ONT., CANADA

## The Best S. C. White Leghorns in America



1st Cock, Palace, 1912

Will, we honestly believe, be hatched from our matings this season. If you could see the marvelous quality in all our pens, you would say so too.

We entered in 23 classes in four shows this season, and won first in 20 classes and second in the other three. We have won more firsts, specials and other awards, in the past four years at Grand Central Palace, New York, Boston, Hagerstown and Philadelphia, than all our competitors combined.

Our stock has not only won for us; it has won for our customers in most every part of this country and Canada. It will win for you.

Buy your stock and hatching eggs from the breeder that produces the goods.  
"Actions speak better than words".

Send for catalog and mating list, and mention American Poultry World.

Dune Alpin Poultry Farm, Geo. J. Kerr, Mgr., Box 561-W, East Hampton, N. Y.

\*\*\* A postal will bring a copy of our Clubbing Catalogue by return mail \*\*\*

## COLUMBIAN WYANDOTTES

Palace Winners 1913. Splendid exhibition and breeding birds for sale. Hatching Eggs. Circular Free.

HORSESHOE POULTRY YARDS, HICKSVILLE, N. Y.

JNO. M. SESSIONS, Breeder and Exhibitor of Buff, Black White, and Partridge

Cochin Bantams also Black Rose Comb Bantams  
Winners at Hanover, Allertown, Hagerstown, Paterson, Grand Central Palace, Philadelphia, Madison Square Garden and Baltimore. First year showing. Stock and Eggs for sale.  
Yards, Pikesville, Md., Office, 28 Market Place, Baltimore, Md

## COLORED LEG BANDS



Red, Blue, Black, White, Amber, Pink, Green, 12-20c; 25-35c; 50-60c; 100-\$1.00; 250-\$2.25.

232-B N. Third St. CHAS. L. STILES COLUMBUS, OHIO

## FERRIS LEGHORNS 30% CUT

Eggs from our bred-to-lay stock are only \$6.00 per hundred in June and \$5.00 per hundred in July. Chicks \$16.00 per hundred in June \$12.00 per hundred in July. Can ship on short notice. See catalog for prices in smaller or larger quantities.

Ferris Improved White Leghorns are in a class by themselves; they will lay 160 eggs a year and are splendid exhibition birds with fine white plumage, good heads and low, well spread tails. SUMMER SALE OF STOCK. Splendid bargains in stock of all grades—thousands of cocks, cockerels, pullets and hens direct from our special laying pens and from our exhibition matings.

Have you had your copy of our new catalog? If not, send a postal today. It is absolutely free and we will be glad to send you a copy. The Ferris Leghorn Farm, GEORGE B. FERRIS, 908 Union Ave., Grand Rapids, Mich.

## ROSE'S ORPINGTONS

Have demonstrated their unequalled exhibition quality by winning the premier honors in such shows as Madison Square Garden, Boston, Chicago, Pittsburgh, etc. We have satisfied customers year after year with this same quality. This year having raised the finest flock of youngsters we ever owned, we are in a better position than ever before to send you the quality that will place you among the winners at any show. Now booking orders for future delivery for selected early hatched cockerels and pullets from this noted strain of "Hardy Canadian Bred" Buff and Black Orpingtons. A few choice breeders still remain to be disposed of at summer prices. Write today for my great summer sales list and if you have not received your copy of my beautiful catalogue it's yours for the asking.

HUGH A. ROSE,

## BUFFS AND BLACKS

FONTHILL, ONT., CANADA



### MORTAL PLANS

The wise man said one summer day,  
"Now eggs are cheap, for all hens lay!  
And so I'll buy a million kegs  
Of these absurdly low-priced eggs  
And store them till the blizzards  
come,  
When hen fruit works are out of  
plumb,  
And then I'll bring them from my  
store  
And clear a ton of wealth or more".

And so he leased a building tall,  
And filled it up from wall to wall  
With coddles of refreshing eggs,  
In crates, in boxes and in kegs;  
And then he waited for the time  
Of shrieking gales and snow and  
rime,  
And planned a trip to Rome and  
Cork,  
With sundry nights off in New York.

The winter came along full soon,  
But 'twas a running mate to June;  
The whizzing tempest didn't whiz,  
The raging blizzard failed to bliz;  
The hens were sure the month was  
May,  
And each laid seven eggs a day.

The man of eggs soon went insane,  
Which shows that human plans are  
vain;  
It also seems good evidence  
That hens have mighty little sense.  
—Walt Mason.

### PERCHES FOR YOUNG STOCK

Authorities do not all agree whether a chicken should be allowed to perch early in life or be compelled to squat on the ground. One writer says Nature is a very reliable guide. When the wing feathers have sufficiently developed to allow the bird to use them, then perching is at once indicated. That no doubt is true, but on the other hand if birds perch while very young the breast bone, which is little more than gristle, is easily bent. But after it has taken on its more firm, bone-like condition it requires considerable pressure to bend it. In the young bird the crookedness is not caused by a break, but rather by pressure or the shape moulded. This is generally brought about by a small, round roost, the breast bone being brought down on the keen edge, and the pressure caused by the head counterbalancing the tail thus gradually forcing the bone out of its keel shape, and the indentation becomes permanent as the bone hardens.

This is especially so with chickens from inbred stock. The writer has a different method for this perching, using low, wide perches, so the chickens must squat, and thus the breast bone is protected by the legs, which will not permit it to come in contact with the perch. The practice of allowing fowls to squat on the floor is not advisable, for the reason that the floor is generally cold, and there is always more or less current of air moving close to the ground, which is apt to chill the stock.

No turkeys should be allowed to perch before they are fully three months old; four months would be

better. Even when it is a case of weight for weight, a nice straight-breasted bird with the flesh laid evenly alongside it has the appearance, if not the actual fact, of carrying more meat, and no one can deny the fact that it is much easier to carve.—Ex.

### BIG MONEY

There will be hundreds of Country Fairs held in the United States during the coming summer and fall. These gatherings of country people make ideal places at which to solicit subscriptions for A. P. W. We want a local representative at each and every fair held during the next six months and are willing to pay most liberally for your services. It is an easy matter to make from \$3 to \$10 per day under our plan. Better select your fair today and send your name for further particulars. Remember it's the early bird that catches the worm. A few days delay may mean the loss of some easy money for you, as it is a case of first come first served. We positively will not appoint but one agent at a fair. Send today and have your fair reserved for you. Address Circulation Manager, American Poultry World, Buffalo, N. Y.

### O. K. STOCK FOOD CO.

Attention is directed to the advertising of the O. K. Stock Food Co., in this issue. A change in the firm name has been made and hereafter it will be known as the Klien-Lambert Co.



### ORPINGTONS White, Black, Buff WHITE WYANDOTTES

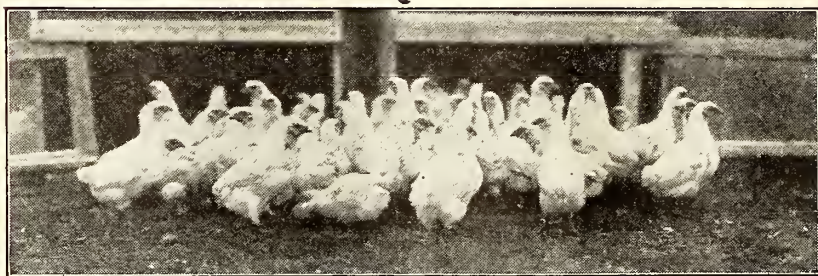
INDIAN RUNNER DUCKS, White, Fawn and White, English Penciled

Baby Chicks and Ducklings, 153 Prizes in 4 shows. A. P. A. Gold Medal, Stock and Eggs for sale. Fancy poultry for breeders a specialty. Write for special price list No. 56.

WOMAN'S COLLEGE,

MERIDIAN, MISS.

## IF I BUY BABY CHICKS WILL THEY MATURE INTO PULLETS LIKE THESE ?



Will they grow into birds that I can feel proud of and that will lay Winter Eggs in quantities, or win the blue ribbons for me, or will they be just scrubs, that's the question before everyone who buys day-old chicks. It is not the first price that counts, but will they be right at maturity?

### Caldwell's White Plymouth Rocks (Fishel Strain) "Baby Chicks of Quality"

#### From Utility Matings

Will mature into long backed, well made birds pure white in color, that will be the secret of "Winter Eggs". Every utility breeder is descended from known good layers that have been bred that way.

#### From Exhibition Matings

Will mature into blue ribbon winners. Every exhibition pen is made up of birds with good combs, of good type and chalk white in color, possessing blood lines of generations of Fishel blue ribbon winners. Our birds were among the principal winners at the Indiana Fanciers' Show, Indianapolis, 1912.

#### A New Catalog is Now Ready

One of the finest ever issued by any breeder. It tells just how "Baby Chicks of Quality" are produced and describes every grade of stock that we have to sell with prices. A copy is ready for you.

#### The Caldwell Selling Plan

no only arranges for the man who orders in advance but for the one in a hurry. Thousands of eggs are setting which will make possible DELIVERY OF ANY NUMBER ON SHORT NOTICE.

R. C. CALDWELL, Box 102-A, LYNDON, Ross Co., OHIO

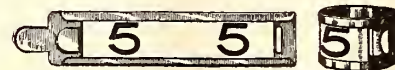
### Turner's Rose Comb Buff Leghorns

Blue Ribbon winners at large shows. 3 Grand Pens. Send for mating list. Eggs and Stock. Best R. C. Buff Leghorns in New England. Satisfaction Guaranteed. EDWARD J. TURNER, Box E. SPRINGVALE, ME.

### Armer's Buff Rocks

Have been winners this Fall and Winter at many of the big shows. At Madison Square Garden, Dec. 26th to 31st, 1913 1st and 3rd cock, 1st and 4th hen, 1st and 4th pullet, 3rd Pen. Write for mating list. FRED ARMER, BALLSTON SPA, N. Y.

### Bourne "Bignum" Poultry Band



PATENT APPLIED FOR

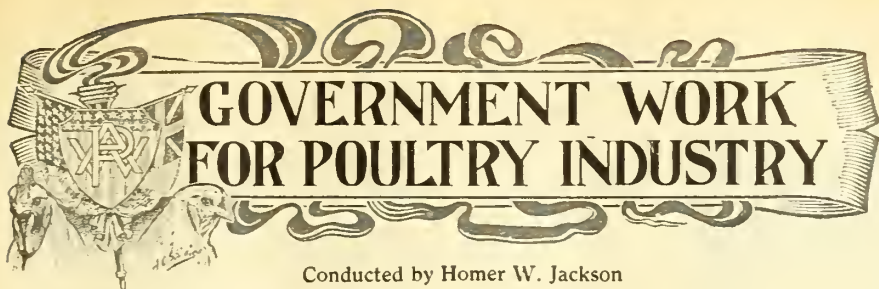
Send two 1 cent United States stamps for sample and trial offer. Large numbers showing ten feet away. First to use numbers you can see. Best band out. Sizes for Bantams, Leghorns, Rocks and Reds. Black numbers from 1 to 100 indelibly printed on white, red, cherry, green, yellow, pink and light blue celluloid. Withstands weather and water. State size, color and numbers wanted.

BOURNE MANUFACTURING CO.,  
234 Howard St. Dept. W. MELROSE, MASS

\* \* \* Your favorite magazines at reduced prices in our Clubbing Catalogue. Send for copy today \* \* \*

\* \* \* All varieties of water fowl described in the book "Ducks and Geese," seventy-five cents per copy postpaid \* \* \*





Conducted by Homer W. Jackson

This seems to be as good a time as any to suggest the desirability of observing a reasonable regard for seasonableness in the publication of Experiment Station Bulletins on poultry subjects. Bulletins on incubation published in midsummer; poultry house construction in midwinter, and feeding for winter eggs in the springtime are of much-too-common occurrence. I am well aware that the mixed responsibility for the issuing of station literature is a handicap that the authors of the bulletins often find it impossible to overcome, but I do not believe the situation is so hopeless as to make it necessary to give up trying and just gratefully accept the pamphlets whenever they manage to sift through the present labyrinth of routine obstructions.

Prompt publication of experimental data after the work is done and definite results secured is of even greater importance. No one can make any objection to reasonable delay in reporting experiments when it is felt that further work needs to be done to complete or confirm the conclusions reached, but it ought to be regarded a serious offense to hold back completed bulletins for months and even years before giving them to the public. This practice, as a rule, cannot be charged to the authors; most of these have a perfectly human, unacademic interest in getting their work before the public promptly, but the general, "official" attitude toward the issuing of Experiment Station data needs gingering up. I believe that bulletins can be gotten out in a seasonable time, like other publications, even though I find little evidence of its having been done.

#### SOME FACTORS AFFECTING THE WEIGHT, COMPOSITION AND HATCHING OF HEN EGGS

This bulletin (No. 145) by Horace Atwood, recently issued by the West Virginia Experiment Station, Morgantown, W. Va., deals with the above subjects chiefly from the standpoint of the chick raiser, and while too late to be of much practical value this season, should be secured for reference in mating and feeding next season's breeding pens.

The feeding of green food had no

effect upon the size of the eggs produced, as was shown by experiments reaching over a period of an entire year. Throughout the year the average weight per hundred eggs was 11.89 pounds for fowls receiving green food as compared with an average of 11.88 pounds from the pen which did not receive green food. At the conclusion of the test the eggs laid by the pen without green food averaged larger than those from the other pen. The presence of green food in the ration brought about an apparent increase in production of over twenty-six per cent.

Liberal feeding noticeably increased the weight of eggs produced and also the percentage of fertility. As was to be expected, liberal feeding resulted in much larger production than where the fowls were scantily fed. It may seem to some that there is no occasion, at this late date, for demonstrating or discussing such an elementary point, but as a matter of fact a large proportion of those who keep fowls, especially on farms, are

still of the opinion that it pays to half-starve hens so that they will forage and collect a considerable proportion of their food on the range. I doubt if any flock handled in this way, even on the farm, ever gives as profitable results as it would if more liberal feeding were practiced. As this bulletin points out, heavy feeding increases the size of the eggs as well as the number.

The fertility of eggs in scantily fed pens was found to be low, but the eggs that were fertile hatched practically as well as a similar number of fertile eggs from the heavily fed pens, and in most of the tests the per cent. of losses of chicks from the scantily fed pens was smaller.

There was greater uniformity throughout the season in the percentage of fertility in the scantily fed pens. Hens on full rations lose heavily in fertility as the hatching season advances because of their inability to maintain their vigor indefinitely. The only practical means of keeping up the vigor of the breeding stock through a long hatching season is to restrict production to what may be called the natural, physiological limit. An experiment that would show just what that limit is under average conditions would be of decided value, and I hope some one will take this up and give us an authoritative answer to the question. It should not prove a difficult matter to do this.

Eggs laid by hens weighed four per cent. more than eggs produced by

**FISHER'S S. C. W. LEGHORNS** Winners at N. Y. State Fair, Central Palace, Buffalo and Utica shows. Now looking orders for baby chicks and hatching eggs from the grandest laying strains of one and two year old breeders in the United States today. Eggs that will hatch chicks that will live and make money for you. The Best in White and Fawn and White Indian Runner Ducks, Cook's and Fisher's strain, pure White Eggs. Order early. Will write you when to send money. Booklet free.  
A. FISHER, R. F. D. 2, W. CANASTOTA, N. Y.

## POLEY BUFF ROCKS

300 Breeders at reduced prices for sale. Get catalogue and price list of same.

JOHN W. POLEY,

Box W,

LINFIELD, PA.

**Terwilliger's R. C. Black Minorcas** after 18 years of careful breeding for egg producers, have again in 1912 as in 1911—proven their claim of equal to the best by making 5 shows winning 21 firsts, out of a possible 23, and every 2nd and 3rd covered including Palace Show where they won every place covered by them. Cocks and Cockerels for sale and hatching eggs in season. Mating List on request.  
G. W. TERWILLIGER, MILLWOOD, N. Y.

## A. B. C. AGAIN SUPREME

At the Rochester Industrial, September 15-20, 1913. The A. B. C. Strain of S. C. Buff Leghorns prove themselves invincible. In a splendid class they win under Judge Bean: Cocks, 1-2; Hens, 1-2; Cockerels, 1-2; Pullets, 1-2; Pens, 1-2. \$10.00 in gold for best display in competition with all varieties in the Mediterranean class. Judges and breeders agreed that never had such a string of Buff Leghorns been shown by any other breeder. Showing the wonderful uniformity of type and color through my flock. 100 cockerels and pullets ready to go in the show room now. Free,—Illustrated Catalogue and price list.

**A. B. COX, 49 Thurston Road, ROCHESTER, N. Y.**

### GRANOCK FARMS S. C. WHITE LEGHORNS WINNERS AT GRAND CENTRAL PALACE, BOSTON, BUFFALO AND PHILADELPHIA

Eight Weeks Old Chicks July 1st to Sept. 1st.  
Cockerels 40 cents each.  
Pullets 75 cents each.  
Guaranteed True Selection.

Hatching Eggs—One-half regular price. Pens 1-3, \$7.50 setting. Pens 4-6, \$5.00 setting. Pens 7-15, \$2.50 setting. Guaranteed 100 per cent. fertile. Pens 16-20, \$2.00 setting. Guaranteed 90 per cent. fertile.

Utility Eggs \$1.00 per setting, \$6.00 per 100, \$50.00 per 1000. Guaranteed 90 per cent. fertile.  
Breeders at reduced prices. Send for Catalogue.

STEWART HADDOCK,

GRANOCK FARMS,

POUGHKEEPSIE, N. Y.



the same birds in their pullet year. In this connection it is interesting to note the statement that "eggs from Leghorn hens do not reach their

of an excess of phosphorus upon the assimilation of the nitrogen content of the whole ration was not considered.

sources upon the digestibility of protein.

These are much-mooted questions among poultry feeders and many radical statements have been made which apparently have had little scientific basis. It is impossible to detail in these columns the experiments which were undertaken to solve this point. It took 75 bulletin pages to do this and, at that, there were left a number of loose ends that should be gathered up to make these experiments as conclusive as their elaborateness would warrant.

Professor Lewis' work corroborates former experiments by W. P. Wheeler of the New York (Geneva) Station to the effect that protein from vegetable sources, even when accompanied by a high phosphoric acid content in the form of bone, is not as effective as when supplied in the form of animal protein. The important point is brought out that in a grain ration containing a liberal amount of protein, the addition of meat scrap does not cause an increased loss of nitrogen in the droppings—which is a distinct step gained in our knowledge of this subject. Protein from animal sources is regarded as being much more digestible than vegetable protein. Phosphoric acid from bones was found to be much better than phosphoric acid from inorganic sources. The statement is made however, that lime from an inorganic source was more digestible than lime from bones. "Heneta Grit" was the

### THE ASH AND PROTEIN FACTOR IN POULTRY FEEDING

This bulletin (No. 265) by Harry R. Lewis of the New Jersey Agricultural Experiment Station, New Brunswick, N. J., reports an elaborate series of experiments in the study of the value of ash and protein in poultry feeding.

These experiments, starting with chicks when first hatched, were continued through to near the end of the first laying season, thus giving an unusually long test of the subjects considered, which were: The relative

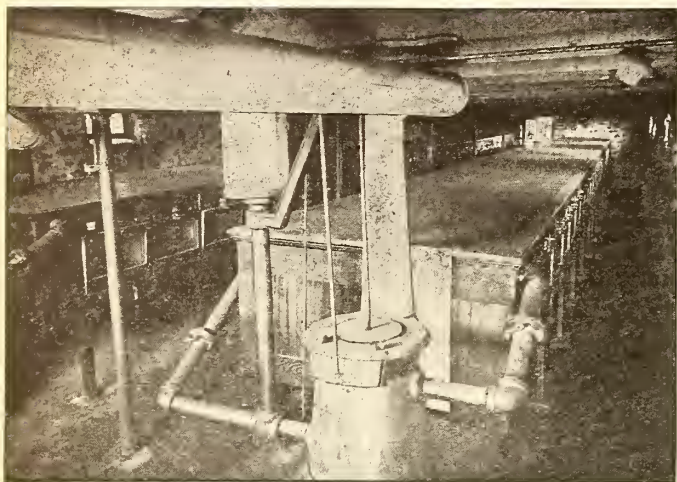
efficiency of protein from animal and vegetable sources; the relative value of phosphoric acid and lime from mineral and animal sources; and the effect of phosphoric acid and lime from organic and inorganic

maximum weight until the hens are at least in their third year."

The composition of eggs was found to vary noticeably during the season, the per cent. of yolk being heaviest at the breeding season, or the period of greatest productiveness. At this time, also, the proportion of phosphoric acid in the egg is at its highest point. This is thought to have some bearing upon the general observation that spring-hatched chicks are stronger and more vigorous than those produced at other seasons of the year.

Phosphorus in the laying hen's ration was studied, experiments being made to ascertain the effect of varying the proportions of this element. In this experiment one pen received a ration containing very little phosphorus, while the ration of the other was high in this element, it being supplied in the form of granulated bone. The egg production of the phosphorus-fed pen was almost double that of the pen with the low phosphorus ration and the average weight of the egg yolks was somewhat greater. The eggs from the phosphorus-fed pen were about four per cent. heavier than the eggs from the other pen. To the hurried reviewer it appears however, that there are other variable factors in this experiment besides the phosphorus content.

Several times as much phosphorus as is used in the production of eggs was found to be present in the ordinary grain rations of fowls. For example, there is seven times as much phosphorus in one bushel of wheat as will be found in 130 eggs. The effect



A corner of the incubator cellar at Everlay Farm, Methuen, Mass., showing two Hall Mammoth Incubators with a capacity of 16,000 eggs at one time. This farm is owned by Mr. J. H. Lord who may justly be termed the White Egg Pioneer of New England as he was the first to establish an extensive White Leghorn Farm in that section. Besides doing a large business in baby chicks and eggs for hatching, Mr. Lord has established a large trade for fancy table eggs in Boston and is succeeding in breaking down the prejudice in favor of brown shelled eggs that has always existed in that quarter.

### RIVERDALE LIGHT AND DARK BRAHMAS WHITE WYANDOTTES

### S. C. AND R. C. REDS BARRED ROCKS

### S. C. WHITE AND BROWN LEGHORNS

Annual Summer Sale prize winners and utility quality.  
RIVERDALE POULTRY FARM.

Bargain list gratis.  
RIVERDALE, N. J.

## LITTLE'S ROSE COMB REDS

If you wish to improve your strain, send for mating list. Eggs at Half Price.

GEORGE W. LITTLE, 700 Washington St., SO. BRAINTREE, MASS.

## Harter's Imperial "Golden" Buff Plymouth Rocks

Win Special for Best Display at the Great New York State Fair Sept. 8 - 13 - 1913

Complete winnings were as follows:— 1 cock, 1-3 hen, 3 cockerel, 1 pullet, 2 pen old, 2 pen young. In a class of 115 said by breeders and judges to be the strongest class ever exhibited at the N. Y. State Fair. Do you want some of this quality? It will win for you. I have several hundred head of choice cockerels and pullets now fit for showing. Write me for prices and say when and where you wish to exhibit.

NESCOPECK POULTRY FARM, S. H. Harter, Prop., Box W, NESCOPECK, PA.

## AURORA COLUMBIAN ROCKS



Winners at Madison Square Garden, January 1913 1 hen, 2-4 cockerel, 4 pullet. Greater Buffalo Show, Nov., 1913:—2-4-5 cockerel, 2-5 pullet, 2-3-4 pen, 5 cock, 5 hen.

AURORA COLUMBIAN ROCKS are grand winter layers, grow rapidly and meet the requirements of the best dressed poultry markets, also possess standard requirements that places them among the winners at leading exhibitions.

Have mated a few select pens for the season of 1914 and will spare a limited number of eggs at \$5 per 15; \$7 per 30. Orders booked and delivery made in rotation. If you want the best, write

LEW H. BOWN, Box W, EAST AURORA, N. Y.

# CAMPINES

## PRUDHOMME'S.

Eggs half price the balance of the season. From general matings \$3.00, two settings \$5.00: Show matings \$5.00 the setting, June is the time to hatch them for the Winter Shows. You need MY STRAIN, better get in on the above right now.  
DR. J. H. PRUDHOMME, Desk B., THURMONT, MD.

# CAMPINES



material used in supplying inorganic phosphoric acid and lime.

As a sort of practical summing up of these experiments the following formulae for rations are suggested by Professor Lewis as meeting the fowl's needs, for protein, phosphorus, lime, etc.

**MASH FOR LAYING HENS:**—Wheat bran, 200 lbs.; wheat middlings, 200 lbs.; ground oats, 100 lbs.; corn meal, 100 lbs.; gluten feed, 100 lbs.; alfalfa, 100 lbs.; meat scrap, 200 lbs. (To be fed dry in hoppers and left before the hens all the time).

**MORNING GRAIN FEED:**—Wheat 100 lbs.; oats, 100 lbs.; fed in litter—about 5 lbs. to 100 fowls.

**NIGHT GRAIN FEED:**—Cracked corn, 200 lbs.; wheat, 100 lbs.; oats, 100 lbs.; buckwheat, 100 lbs., fed at the rate of about 10 lbs. to 100 fowls.

**SUMMER DRY MASH:**—Where hens are on range and have plenty of growing green food the following formula is recommended: Wheat bran, 200 lbs.; wheat middlings, 100 lbs.; ground oats, 100 lbs.; gluten feed, 50 lbs.; meat scrap, 25 lbs.

**A CHICK-FOOD MIXTURE** of 40 lbs. of fine cracked corn, 40 lbs. of fine cracked wheat and 20 lbs. of rolled oats is recommended, with wheat bran constantly before the chicks in pans or hoppers, during the first two weeks. After the second week the following mash is recommended to be fed dry: Wheat bran, 50 lbs.; gluten feed, 10 lbs.; corn meal, 10 lbs.; ground oats, 10 lbs.; meat scrap, 10 lbs.; granulated bone, 10 lbs. This dry mash is to be fed to the growing chicks until they are transferred to the fattening pens or the laying houses. When the chicks are placed on the range, a grain mixture of equal parts of whole wheat and cracked corn is fed in place of the finer chick food.

#### SHOW BIRDS NOW READY

Attention is directed to the advertising of Owen Farms, Maurice F. Delano, prop., on another page in this issue. Mr. Delano reports a very successful season, especially so in hatching and raising chicks, which is directly opposite the results secured by a majority of poultrymen in all sections of the country. Appreciating the fact that there would be a shortage of early show birds, Mr. Delano is offering hundreds of January and February hatched birds for the early August and September fairs. Orders for stock in either of the five Owen Farms varieties may be placed now and the birds will be conditioned and shipped to you at show time. If you are short of early birds you better look into this proposition and get into communication with Mr. Delano at an early date. He also has a few early moulted cocks and hens and is in position to fit you out a full string in either one or all of his varieties. Drop a line today and address 115 William St., Vineyard Haven, Mass.

#### SUNNY SIDE LEGHORNS

The regularity with which customers return for stock or eggs of the "Sunny Side" S. C. White Leghorns as bred by Glen L. Wheeler, Penn Yan, N. Y., is a pretty good indication that they possess the quality that satisfies. When the writer was visiting Mr. Wheeler's place a few months ago he was preparing a large shipment of birds for a California breeder who has for many years been a regular customer of Sunny Side Leghorns. In addition to this several instances were cited where persons who had purchased stock several years ago would write for birds possessing certain characteristics to add new life to their flock of Sunny Side Leghorns that had been kept intact for years. This strain of Leghorns has helped many to win high honors and no doubt, dear reader, that just the bird you desire can be furnished by Mr. Wheeler. Sunny Side Leghorns are layers as well as winners. You better write Mr. Wheeler today if you are in need of a good bird.

#### FRESH AIR TOLMAN

Joseph Tolman, Rockland, Mass., is known in all sections of the country as a strong advocate of fresh air houses for poultry. Mr. Tolman practices what he preaches too, as he uses the Tolman fresh air house exclusively in his operations. He is an extensive breeder of White Rocks and during July, August and September will sell baby chicks at \$12 per 100. These chicks are in great demand in Massachusetts, where they are extensively used in the south shore soft roaster industry.

#### BUFF ORPINGTONS

Forty cocks and 200 hens is the July offering of A. E. Martz & Son, Buff Orpington specialists, Arcadia, Ind. These are part of their 1914 breeders and will be disposed of singly, in pairs, pens or in quantities to suit the purchaser. Mr. Martz issues a beautiful Orpington Fashion Plate book of 56 pages and if you have not received a copy and are a lover of Buff Orpingtons you better send for it today. Mention of A. P. W. will be appreciated.

## BUFF ROCKS

VIERHELLER BROS.,



## VIERHELLER'S SUNBURST STRAIN

at the two last meetings of the American Buff Rock Club our Sunburst Strain have won the Club Championship Cup for best cock, hen, cockerel and pullet.

AT CLEVELAND, DECEMBER 3-7, 1913

at 1913-14 Club Meeting we won more firsts than all competitors combined. 1st pen, 1st cockerel, 1st pullet, also special for best display and other awards. EGGS for hatching from the finest matings ever put together \$3.00 per setting and up. Send for mating list.

71 Sylvania Ave.,

PITTSBURGH, PA.

#### MOORE BROS.

## S. C. WHITE LEGHORNS

Egg now half price. Grasp the opportunity to secure eggs from one of the greatest winning strains of Leghorns in America. Farm raised, healthy, vigorous. They lay as well as win. Our free catalogue gives full information with description of our 12 matings. Send for copy to-day. Remember the choicest productions are hatched in the month of June each year. *Baby Chicks* 10 cents after May 20th.

"You can win with our Strain."

MOORE BROS., Box W, MOSCOW, N. Y.

# "SENSATION"

and RED PRINCE Strains of Rose and Single Comb Reds

Winners of 186 prizes at New York, Boston, and Providence, since December, 1909; including 31 firsts, \$50 cup for Display, Boston, 1912; Display, New York, 1912-13, and State Cup for Display for six successive years at Providence, R. I.

Eggs at "Sensational" Prices. AFTER JUNE 1st all eggs above and utility grade at HALF THE REGULAR PRICE. Plenty of time to Hatch Winners for the Winter Shows. Stamp for Mating List.

RED FEATHER FARM, F. W. C. Almy, Prop. and Mgr., Box 22, Tiverton 4 Corners, R. I.

#### JULY LEGHORN CHICKS

Edgar Briggs, Box 31, Pleasant Valley, N. Y., who makes a specialty of heavy laying S. C. White Leghorns, has made some special summer prices on eggs for hatching and day old chicks. During this month a five dollar bill will bring one hundred hatching eggs or one hundred baby chicks will be forwarded for eight dollars. Mr. Briggs is author of the book "Profits in Poultry Keeping Solved", of which several thousand copies have been sold. The price of this book is \$1.00 the copy, or it will be given to each customer placing an order for \$10 worth of stock or eggs. When writing it will be appreciated if A. P. W. is mentioned.

\* \* \* Do not delay—Send today for a copy of our Clubbing Catalogue, it saves you money on your magazines \* \* \*

#### ALDRICH WHITE ORPINGTONS

You can make money raising chickens if you start right, with stock or eggs from the *Quality Strain* of the most popular and profitable fowls in the World. Beautiful Catalogue and Color Plates Free.

Aldrich Poultry Farm, 4034 N. High St., Columbus, Ohio

#### GABRIEL'S "RAVEN BLACK" S. C. BLACK MINORCAS

I have a large number of extra choice Cockerels—"Raven Blacks" will add quality to your flock. Write your wants.

FRED C. GABRIEL, Box W, SOUTH BEND, IND

#### STILLWAGEN'S SINGLE AND ROSE COMB REDS

Eggs now half price. Breeding males and females at bargain prices.

Write  
Frederic H. Stillwagen, 38 So. 7th St., Allentown, Pa.

#### S. & R. C. BLACK MINORCAS

Eggs from Palace winners \$3.00 per 15.

Great Layers. Can ship eggs promptly.

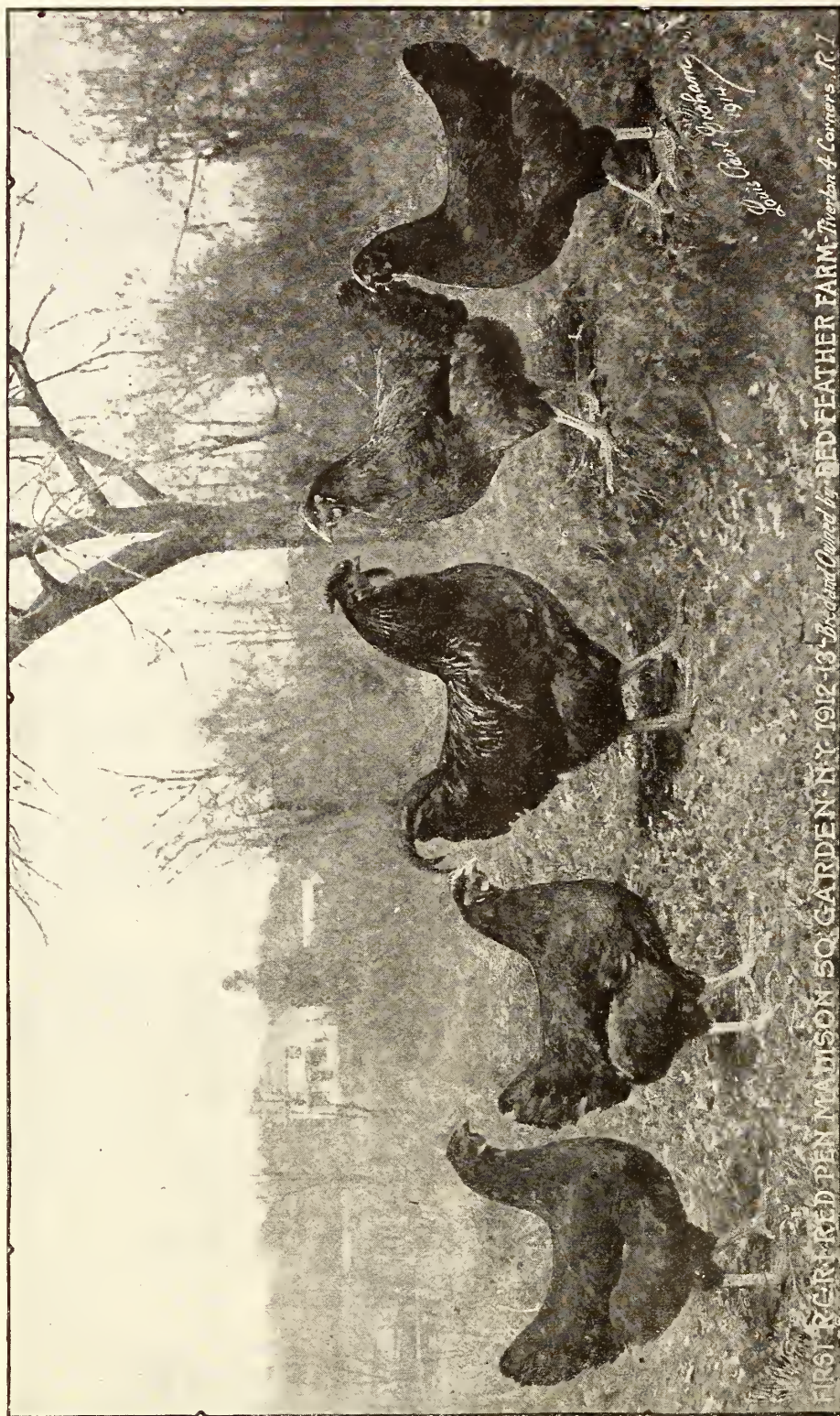
New Mating List Free. Write today.

HAROLD W. GOULD, LAKE GROVE, N. Y.

#### O. L. HILL, SHELBURN, IND.

Originator and Breeder of "Eclipse" White Wyandottes. Write me your wants and I will send you my prices and catalogue giving full description of my stock. We also breed a fine line of Black Cochins Bantams.





Red Feather Farm, F. W. C. Almy, prop., Tiverton Four Corners, R. I., has made some remarkable exhibits during the past few years especially at Madison Square Garden and Boston. The pen shown above captured first honors at the former show where they attracted much attention from visitors as well as poultrymen present. In commenting on this pen, artist L. P. Graham states: "This is the most wonderful pen of R. C. Reds ever under the blue at Madison Square Garden. Every female was of long typical red shape, and matched perfectly in brilliant red coloring. The male not only had wonderful surface and under color, but his shape was truly that of a Red free from angular lines, and his headpoints the best yet produced. Mr. Almy's repeated winnings at Madison Square Garden and Boston stamp him as a consistent breeder of top notch Rose Comb Rhode Island Reds."



## CARE AND MANAGEMENT OF GROWING CHICKS

By W. A. Wolford

(Continued from page 690)

the afternoon. Where there is no protection from the sun the interior of the houses become so hot that they are very uncomfortable during the greater portion of the night, especially so, in extremely hot weather.

### CARE OF YARDED STOCK

Where free range is not available the conditions should be approximated as closely as possible, that is, the birds should not be crowded, if shade is lacking in the runs, burlap or muslin screens should be put up and if vegetation is lacking, greens of some kind must be supplied daily. The vigorous healthy development attainable on free range can never be equaled in yarded stock. Outward appearances may indicate as much, but if obliged to continue by this method year after year a vast difference between the two will be apparent not alone in the general appearance of the stock, but in the results as well. I don't want to condemn the yard method as there are some highly successful poultrymen who have followed it for years, but they have come to appreciate its limitations and have made their operations to conform to the same. The most common fault with the breeder who has to keep his flocks confined is over crowding. He attempts to raise two, sometimes three or four chickens where only one should be his aim. To be successful under such intensive conditions he must always bear in mind that there are certain restrictions which must be respected.

### THE FEEDING QUESTION

While the feeding question is one that requires much study, fully as much depends upon the feeder as upon the feed. This is a subject that can only be treated in a general way as there are no set rules for feeding that apply in all cases, local conditions again pop up, and feeds and methods of feeding have to be varied to nick with them.

Generally speaking we can safely adopt the dry system, that is various grains, whole and cracked combined with dry mash consisting of ground grains and mill by-products. For the grains we have wheat, cracked corn, clipped oats to which barley and kaffir corn may be added. The ground grains and by-products should consist of corn meal, bran, middlings, ground or crushed oats, granulated bone, etc.

The grain can consist of cracked corn, wheat and clipped oats equal parts, and should be fed sparingly in the morning and all they will clean up may be given as an evening feed. These quantities may be varied to suit the feeder, but the three grains should be considered the foundation for all grain rations.

In preparing the dry mash I have found that one consisting of one part corn meal by weight, one part bran, one part middlings and two parts



1st Prize Cockerel, Madison Square Garden, December, 1911.



1st Prize Cockerel, Madison Square Garden, December, 1911.



1st Prize Cockerel, Madison Square Garden, December, 1911.



1st Prize Cockerel, Madison Square Garden, December, 1911.



1st Prize Cockerel, Madison Square Garden, December, 1911.

## OWEN FARMS BIRDS

### Have Demonstrated Their Unequaled Exhibition Quality

By winning the highest honors in their own and customers hands at every show from the Atlantic to the Pacific.

### They Have Demonstrated Their Utility Quality

In the hands of thousands of customers all over the United States and Canada.

### Owen Farms Treatment Has Made Friends Of Its Customers

And a great number of the new customers that come to Owen Farms for their stock and eggs for hatching are sent by these friends.

### Owen Farms Youngsters

This year are wonderfully uniform in quality. Among them are winners for any show they may enter. Also strong, husky breeding birds that will produce winning show birds, and birds of profitable utility quality.

Hundreds of these youngsters were hatched in January and February and will be ready for the **Early Fairs** in **August** and **September**. There is a great scarcity of early chicks throughout the country this year and the demand is going to far exceed the supply for **finished youngsters** for the **early Fall Fairs**.

This is why I am telling you in my July ad. this year that you can come to me and get the **finished youngsters** to fill out your string,

I will have a few **early moulted cocks** and **hens** in all my varieties to win for you.

Whatever your **weak point** is write and tell me just what you need and if you **come** to me **early** I will have the birds to accomplish for you just what you desire.

Over 9,000 old and young birds are on **Owen Farms** and among them are the exact birds you want for **showing** and **breeding** and for **utility purposes**.

### BUFF ORPINGTONS

### WHITE ORPINGTONS

### WHITE PLYMOUTH ROCKS

### WHITE WYADOTTES

### S. C. RHODE ISLAND REDS

All adult birds sold during July at just half price they have brought prior to the breeding season.

I want your order, and remember, your absolute, ultimate satisfaction means my permanent success.

## OWEN FARMS

115 William St., Vineyard Haven, Mass.

MAURICE F. DELANO, Prop.

FRANK H. DAVEY, Supt



ground or crushed oats gave very satisfactory results. Ten to fifteen per cent of granulated bone may be added to this or the bone may be put in a separate hopper. Some breeders prefer crushed oats alone for hopper feeding, there are probably as many combinations of grain and mash mixtures as there are feeders preparing their own feeds.

With the above feeding constituents on hand the expertness of the feeder comes into the play. He must be constantly alert and able to immediately note any change in the condition of his charges. Feed carefully, note their likes and dislikes and try and prepare a ration most to their liking. Work in a little variation occasionally to keep their appetite keen, give a moist mash for variation once every few days or feed whole wheat, one evening; then feed clipped oats; then back to the regular mixture. Keep them ever eager for the feed and don't forget to keep a supply of grit on hand not only in the hoppers but under your own skin.

#### FRESH WATER MEANS MUCH

Water, well I guess the chicks and older fowls, for that matter enjoy a drink of fresh water on a hot day fully as much as us humans, and really I think the water supply is one of the most important factors in their welfare. Just imagine a chick that has been out chasing grasshoppers and bugs for some time, returning for a drink and finding the water supply about 80 degrees. Very satisfying is it not? By all means change the drinking water frequently, at least three times a day, and oftener if you can find it convenient. It is one of the things that count in the end.

While we are on the watering subject, did you ever notice how quickly the water dishes become slimy in warm weather, especially those inverted fountains? They almost slip out of your hand when you are filling them. Did it ever occur to you that they should be washed—yes, scrubbed, or do you let them continue in that condition? Better go right out and examine them and while you are about it give them a thorough cleansing.

#### STUDY THE CHICKS

Returning again to the growing chicks you should make a mental note of their condition every time you visit them. It often happens that one flock will not do quite as well as the others, investigate and see if you cannot determine the cause. Then again in all flocks you will find some backward chicks, slow growers, have a separate range and remove all such from the flocks as fast as discovered, place them apart from their stronger and more robust mates, and should you decide to winter them, keep them in a separate flock. Once developed they will look as good as any of the others, but they are not the kind that you want to breed from, or have in your breeding pens.

During the growing period is a good time to select and mark future breeders. To put a solid foundation under your poultry business your flock must possess constitutional

vigor. There is not a better time to select for this important characteristic than during development or the growing period, when your duties bring you in contact with the chicks constantly and you are able to observe every little detail in regard to growth, and this is a period that offers many advantages for study. Start today to study your flock, do it as intently as you would a mathematical problem, and in a few days you will begin to realize that there are many things commanding your attention that had never before occurred to you. Instead of all individuals in the flock being as near alike as two peas in a pod, you will discover that they are really different, and that there are as many differences as there are individuals in the flock.

A few specimens will appear much more alert and vigorous than the rest, they will go after their feed with a vim, quickly satisfying their desires they are off ranging after the elusive grasshopper or gathering a few choice greens. They are all life and hustle; first out in the morning and last in at night. These are the individuals that should be selected for future breeders. If this method of selection is carefully followed improvement in the flock will not be along one line only, but will be general, that is, health, vigor and productivity will show improvement.

Although I have only generalized

#### ENGLISH PENCEILED RUNNERS

##### BRED-TO-LAY BARRED ROCKS

Great Summer Sale of hatching eggs and stock either variety.

Brookhaven Farm, Mrs. Andrew Brooks, R. 6, Auburn, N. Y.

**S. C. WHITE LEGHORNS** The kind that Win, Lay, Pay. A choice lot of breeding stock for sale, prices on application. Fine lot of early birds growing into layers and winners. Write your wants.

**WILLOW BROOK POULTRY YARDS**  
C. E. Pemble, Prop., R. 4, PEORIA, ILL.

#### LOUSY HENS

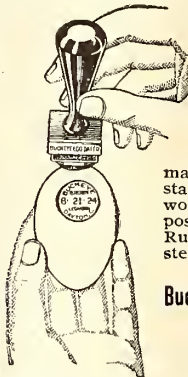
destroy profits. You can conquer lice permanently with one application each year. Conclusive proof is furnished by 36 years demonstrated results. Stopping the nightly torment by mites makes your hens better layers, breeders and profit producers.

#### PRESERVES WOOD EVERYWHERE

Use Avenarius Carbolineum as a paint for barns, sheds, silos, garages, fences and shingle roofs. Write for Bulletin 33.

Carbolineum Wood Preserving Co., 190 Franklin St., New York

#### BUCKEYE EGG DATER



A "Rubber Stamp" for marking your eggs. Name, Date and Place with special ink that won't wash off, dates are made not to fall out. The best stamp in the world for rapid work \$3.40, without date \$1.65 postpaid, information free. Rubber type, burning brands, stencils. Catalogue 10c.

Buckeye Rubber Stamp Works

Market Place

DAYTON, OHIO

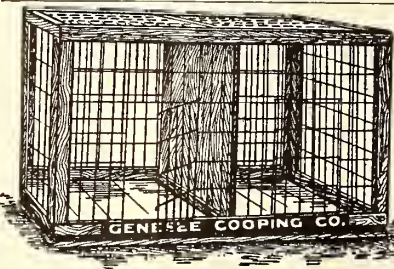


#### MAPLEWOOD STRAIN S. C. White Leghorns Pekin Ducks

##### SPECIAL SALE. 500-S. C. WHITE LEGHORNS HENS-500

The noted Maplewood winning strain of S. C. White Leghorns, Prolific egg producers. Winners of many first and minor prizes at such shows as Greater New York, N. Y. State Fair, Greater Buffalo etc. In lots of 25 or more \$1.25 each. THIS is our annual clearance sale. Send your order today. Delay means disappointment. Still booking orders for baby chicks

Maplewood Poultry Yards, H. D. Hayner, Supt., Box W, Attica, N. Y.



#### ATTENTION! SHOW SECRETARIES

Write for illustration showing Genesee System of all metal sanitary cooping.

Good second hand coops for sale.

Cooping shows on rental our specialty.

#### GENESEE COOPING COMPANY

Geo. W. Webb, Mgr., ROCHESTER, N. Y.

## "THE FEATHERED WORLD" YEAR BOOK 1914

An indispensable handbook of reference and comprehensive review of the year for Poultry Keepers and Pigeon Fanciers. **832 pages fully illustrated with photographs of the leading birds of the year.**

Marvelous value and of entrancing interest to poultry and pigeon fanciers the world over, at the low cost of 45 cents in paper boards; 80 cents in cloth binding. Postpaid.

Address all orders

### THE FEATHERED WORLD

9 Arundel Street,

Strand, London, England



I have endeavored to point out the important details in the care of growing chicks and to show that it is during the summer that the poultry raiser has his work cut out for him. While others are idling their time away work for the poultry breeder is hardest, he must look forward to the poultry show season as a time for diversion and even then he must not absent himself for too long a period. Successful poultry raising means work.

#### A NEW POULTRY DOCTOR BOOK

Elsewhere in this issue the Cyphers Incubator Company, Buffalo, N. Y., announces the publication of a new, up-to-date Poultry Doctor Book which will be ready for mailing this month. This book is the third of a series of popular hand books published by this company and we predict for it a great demand.

The practical poultryman prefers to prevent disease rather than to doctor sick birds and special attention is

to the busy poultryman. In this chart the common symptoms of different diseases are given, also their names, the proper treatment and the most effective means of prevention—all arranged in four parallel columns, thus making it a simple and easy matter to diagnose diseases with certainty and learn the proper treatment—and to do this in a moment's time.

The "Cyphers Company Poultry Doctor Book" contains 32 large pages, is well illustrated and attractively bound, and should be in the library of every poultryman. The price of the book is 25 cents, but the Cyphers Incubator Company has arranged to mail a first edition copy free to every subscriber who sends in his or her application promptly, mentioning this paper. Send for your copy today, writing direct to the Home Offices of Cyphers Incubator Company, Buffalo, N. Y., or address the Company's nearest branch store, as follows: 12-14 Canal St., Boston, Mass.; 41 Barclay St., New York, N. Y.; 329-331 Plymouth Court, Chicago, Ill.; 317-319 South-West Boulevard, Kansas City, Mo.; 2127 Broadway, Oakland, Cal.; 121 Finsbury Pavement, London, England.

#### SANBORN BUFF WYANDOTTES

In a recent letter Dr. N. W. Sanborn, specialist in Buff Wyandottes at Holden, Mass., states "I had orders booked for fall delivery for one-fourth of my pullets, before they were hatched". This certainly speaks well for the demand for high class Buff Wyandottes. The Sanborn Buffs have an established reputation both as prolific egg producers and winners. Just now the Doctor is having a sale of breeders, yearling birds, and is quoting prices that are startlingly low. Readers interested in the Buffs who desire to secure stock possessing the above qualities should write today and mention A. P. W.

#### HIGH CLASS BREEDERS FOR SALE

C. E. Pemble, Prop. Willow Brook Poultry Yards, Peoria, Ill., advises that he has a large number of selected breeders for sale and would be pleased to hear from all A. P. W. readers who are interested in quality S. C. White Leghorns.

He has had an unusually good season with the result that he now has a most promising flock of youngsters maturing for the early and fall and winter shows. He will be pleased to quote prices on either old or young stock if you will write your wants.

\*\*\* Send for a copy of our new Clubbing Catalogue, now ready for mailing \*\*\*



#### YOKOHAMAS AND Y. BANTAMS

Eggs in Season. Birds for Sale.

Mrs. L. C. Prideaux, Lindfield, Sussex, England



URBAN FARMS  
PINE RIDGE  
BUFFALO, N. Y.

Ask for our 1914 Mating List of Prize Winning BLACK LANGSHANS, WHITE PLYMOUTH ROCKS, ANCONAS, HOUDANS, SILVER CAMPINES, MOTTLED JAVAS, BLACK TAILED WHITE JAPANESE BANTAMS and MILLE FLEURS.

#### BLUE RIBBON

The Globe Elevator Co., 97 Kentucky St., Buffalo, N. Y., are desirous of quoting prices on the "Blue Ribbon" feeds either to the consumer direct or to dealers. All interested should write today for further particulars.

#### White Plymouth Rocks Exclusively

Eggs now \$1.25 per 15. To close out, some very fine hens at \$1.00 and \$1.50 each. Need the room. THEODORE L. POOLE, Emma St., SYRACUSE, N. Y.

#### THE GREAT LEGHORN FARM

Eggs for hatching half price after the 10th of May, in R. C. Brown, S. C. Brown, S. C. Buff and S. C. Black. Some fine exhibition birds for sale in the fall. HENDERSON & BILLINGS, ST. MARTY, ONT.

#### DICTOGRAPH POULTRY FARM

West Nyack, N. Y.

#### BREEDERS

White Faverolles, Single Comb  
White Leghorns, Silver Campines,  
Exhibition and Utility. Stock for Sale.

#### Prairie State Portable Hovers

Made of galvanized steel. Designed to fill every requirement of those who brood flocks of 50 to 100. Fire-proof—Positive ventilation—Automatic regulator. Burns one pint of oil in 24 hours. Each \$8.50.

Full information on all kinds of Brooders free.

Prairie State Incubator Co., 202 Main St., Homer City, Pa.



#### WARSAW COOPING CO.



Manufacturers of Exhibition Poultry and Pigeon Coops of latest improved design. We make a specialty of cooping Poultry Shows, at reasonable prices. Write for particulars.

WARSAW COOPING CO., WARSAW, N. Y.

given to prevention and sanitation in this book. Every one who wants to keep his fowls in the best possible health and his buildings and yards free from infection will find this book a thoroughly reliable source of plain, common-sense, dependable information. When diseases must be treated, full directions for doing so will be found in this book and the simple, labor-saving "Cyphers Method" of doctoring sick fowls will be of interest to all. Special attention is given to the diseases that cause the heaviest losses in the poultry yard and the very latest information is given on such puzzling questions as white diarrhoea in chicks, cholera and roup in fowls and blackhead in turkeys. The "Cyphers Company Chart of Poultry Diseases and Remedies" is published for the first time, in this book, and it will prove of special value



## Young's Strain S. C. White Leghorns

### I HAVE NO OTHER BREEDS

They are the standard for all the Leghorns of all America and the greatest layers of all domestic fowls. At the World's Famous and Premeir Show of America, at Madison Square Garden, New York, for the past thirteen consecutive years I have won best display, and from three to five first prizes, every bird being bred and raised by me.

Mating List Free.

D. W. YOUNG,

MONROE, N. Y.



## SUCCESSFUL MARKETING OF EGGS BY PARCEL POST

(Continued from page 691)

The extra expense will be little and the returns in increased trade great.

The larger the shipments that the producer can arrange to make, the cheaper can he afford to sell his eggs. Within the first and second zones of the parcel post service, a package costs five cents for the first pound and only one cent for each additional pound. Ordinarily eggs weigh about 1½ pounds a dozen, which with the additional weight of the wrapping and container, would make a package of a dozen eggs weigh between two and three pounds. The postage on this would be 7 cents. If another dozen eggs were included in the package the postage would not be more than 9 cents, or 4½ instead of 7 cents a dozen eggs.

### COST OF POSTAGE

To the value of the eggs and the cost of postage must be added the cost of the container and the wrapping. For two dozen eggs this may be estimated at 8 cents. With postage at 9 cents, it would, therefore, cost 17 cents to market two dozen eggs, or 8½ cents a dozen. By shipping in 10-dozen lots, it is estimated that the marketing cost can be reduced to 4.7 cents a dozen.

Where the container can be used more than once, this cost can of course be somewhat reduced. Large sized containers will stand from two to four trips, smaller ones three to five, so that it will pay the producer to induce his customer to return the containers periodically. The postage required for this is of course deducted from the bill for the next shipment.

Although it is obviously advantageous both to the producer and consumer that the eggs be shipped in large quantities and consequently economically, it must be remembered in taking orders that the supply of eggs undergoes the greatest fluctuations. In times of scarcity it is not good policy for the producer to send all his output to one customer, neglecting his other friends, nor in times of plenty can he expect to dispose of his entire stock to his regular customers. These points must be given due consideration and the quantities that are to be supplied at each season of the year carefully stated in the contract. The price, too, varies with the supply. One good method of determining this is to take as a basis the wholesale price of eggs on the open market and add to this a certain number of cents a dozen for the new-laid parcel post eggs. Care should be taken, however, to see that there is no possibility of any misunderstanding arising in regard to the basic price. To obviate this, the quotations published in a given newspaper or some other similar authority may be accepted.

### PRESERVING EGGS

Eggs are scarcest and highest in the fall. Chickens should, therefore, be hatched early enough to begin

laying at this season. Moreover little difficulty will be experienced then in disposing of the entire output and it will in consequence be unprofitable to divert any of the supply to home purposes. This difficulty can be overcome by preserving eggs in the spring, when they are plentiful and cheap. A solution of water glass which can be obtained at drug stores for 75 cents a gallon, should be used for this purpose, each quart being diluted with 10 quarts of water which has been boiled and cooled. The eggs should be packed in stone jars or crocks and the solution poured over them, or they may be carefully placed in the solution each day. Eggs kept in this way are perfectly good, but naturally they do not command the prices of those newly-laid. The shells sometimes break in boiling, but this may be avoided by puncturing the end with a pin just before they are dropped into the water.

The only drawback to marketing eggs by parcel post appears to be the time and trouble involved in packing them. This is compensated for by the extra price that can always be obtained for products that are absolutely reliable. At bottom, therefore, the shipper's success depends upon the care with which he safeguards the reputation of his products. Satisfied customers will soon build up his business for him. Any postoffice will furnish complete information in regard to regulations and rates, and, as already stated, the several State Experiment stations have information in regard to the various types of shipping boxes. The results of the U. S. Government's investigation of the matter have been published in Farmers' Bulletin 594, of the Department of Agriculture, which will be sent free on request.

### THE NATIONAL JAVA CLUB

The National Java Club was organized at La Porte, Ind., August, 12, 1913. The officers chosen are: Geo. M. Mathews, Brocton, N. Y., Pres.; Herbert Hodgson, Albion, Ill., Vice-Pres.; Herbert J. Luik, La Porte, Ind., Sec.-Treas. Executive Board: W. L. Messer, Bath, N. Y.; Mrs. M. K. Rudd, Milacina, Minn.; Geo. M. Mathews, Brocton, N. Y.;

Herbert Hodgson, Albion, Ill.; Herbert Luik, La Porte, Ind. The object of the club is to encourage the breeding of Javas of all varieties. The plans for a national meet are well under way, Chicago, Buffalo and Cleveland being considered. The membership is free for the year 1914, all we ask is the name of the breeder. List of breeders sent to anyone on application. If interested write to Herbert J. Luik, La Porte, Ind.



### Crown Bone Cutter

Hens fed cut green bone lay more eggs. Get a Crown Bone Cutter. Send to-day for catalogue, Wilson Bros., Box #27, Easton, Pa. **BEST MADE Lowest in Price**



### REDUCTION

Balance of Season

Eggs \$1 per 15, \$6.50 per 100. Special pen one-half price, Rose and S. C. Brown and White Leghorns, Barred Rocks, Reds, and White Wyandottes. Catalogue.

W. W. Kulp, Box 72, Pottstown, Pa.

### Liberal Religious Literature

Will be sent to anyone who is interested

### FREE OF COST

Send name and address on postcard to

MISS ANNA SMITH

122 PARK STREET,

BUFFALO, N. Y.



### MILLER'S SPANISH

Better than the rest. No more stock for sale until June. Eggs 1-2 price after May 15th.

FRANK MILLER,  
Box W, CRESTLINE, O.



### A BOOK FOR FAMILIES

## DISEASES and THEIR CURE

FIFTY YEARS EXPERIENCE

OVER 300 PAGES, handsomely bound and full of facts in medicine, symptoms and directions for treatment in each case.

To close out the edition, will sell copies at 75 cents each, postage paid. Address

DR. O. H. CRANDALL  
QUINCY, ILLINOIS

## HILLDORFER'S CHAMPION JUMBO S. C. BLACK MINORCAS

THE GREATEST PRIZE WINNING STRAIN IN THE WORLD  
STOCK FOR SALE

IF you are in need of new blood to produce the type and color, that will win in the show room, or to increase egg production or stamina in your birds, I can furnish you stock that will please. Hundreds of birds to select from, and my prices are reasonable. Send for Catalogue and please mention A. P. W.

Hilldorfer Black Minorca Farm, Geo. E. Norman, Mgr., Butler Co. Saxonburg, Pa.

## PARKWAY POULTRY AND STOCK FARM

BREEDERS OF

White Rocks

S. C. BROWN LEGHORNS  
S. C. BUFF LEGHORNS  
S. C. WHITE LEGHORNS

Black Orpingtons

1000—BIRDS FOR SALE—1000

BABY CHICKS

\$25 per 100

EGGS FOR HATCHING

\$3, \$5 and \$7 per 15

Hanlon's Orpingtons and Leghorns have produced winners for the past fifteen years.

Parkway Poultry and Stock Farm,

Box W,

PHILLIP E. HANLON, Manager

Watertown, N. Y.



## ENVIRONMENT THE DETERMINING FACTOR IN PRODUCTION

By H. R. Lewis, Poultry Husbandman,  
New Jersey State Agricultural Experiment Station,  
New Brunswick

(Continued from page 693)

Since we are attempting to pattern after spring conditions when the days are short and there are only a few hours of sunshine, nothing comes nearer to this than flooding the house with sunlight. To do this the front of the house should be constructed so that a large part of it can be thrown entirely open. We have found that if they cannot have both, hens prefer the morning to the afternoon sun. For this reason the windows which must provide the sunlight should be placed at the east end and the front of the house. The windows should be placed as high as possible so that the sunlight will get on the floor in the back of the pens. One square foot of glass in the front of the house to every thirteen and one-third square feet of floor space or about one-third less glass than muslin provides a suitable condition.

### THE BIRDS SHOULD BE PROTECTED FROM THE COLD, YET NOT KEPT TOO WARM

Hens will stand intense cold much better than a warm temperature. If the house is drafty as well as damp, colds rapidly develop into forms of roup that quickly put the birds out of laying condition. The perches and roosting quarters should be placed as far as possible from the openings in the front where the incoming cold air will have a chance to get warmed up before it strikes them, and also where they will be protected from drafts which are more or less common in the front of the house. The poultry house should be so arranged that the temperature of the birds' bodies can be partially conserved during extremely cold weather, but when practicing this conservation one should not neglect the important factor of admitting fresh oxygen laden air to replace that which they have breathed out and which is laden with poison, due to the excess of C. O. 2 it contains. Birds in extremely cold houses, if they are properly constructed and not drafty, will consume more food, but will maintain themselves in better health and give a higher percentage production than if kept in warmer and more poorly ventilated houses. Frozen combs are not due to cold temperature, but to lack of vitality in the individuals themselves and to the presence of a high relative humidity in the house. We have kept large flocks of Leghorns in perfect health, and in a high state of production without the appearance of a frozen comb in well ventilated cold houses where the tem-

perature was fourteen degrees below zero.

During the warm summer some means should be provided for cooling the house off. This can best be done by providing some type of ventilator in the rear of the house, preferably a hinged door in the back, and an opening above the roosting quarters, thus allowing the air to circulate between a double partition and into the house. By actual tests such a ventilating system has cooled a house off, at least, eight degrees during the warm summer nights.

### LAYING BIRDS SHOULD BE GIVEN PLENTY OF ROOM FOR EXERCISE

Exercise is essential for the health of the individuals as well as to prevent them from taking on too much surplus fat, a condition with our heavier breeds which is very detrimental to profitable egg production. The exercise can best be provided by keeping the floor covered to a depth of eight or ten inches in the winter with a good scratching material, coarse straw being the best, and feeding all grain rations broadcast in this litter.

The number of birds which can safely be kept in a house of given dimensions will depend somewhat upon the experience of the poultryman caring for them. Under average conditions it is safest for the amateur or the one with limited experience not to crowd his birds too closely, keeping about one bird to every five or six square feet of floor space. The expert, however, who thoroughly understands the needs and methods of sanitation, can successfully keep as many as one bird to every three or four square feet of floor space and maintain them in perfect health.

The construction should be made as nearly as possible rat and vermin proof. Rats are often a direct source of great loss caused by the death of young pullets, and by the large amount of feed which they will con-

sume. A well-constructed concrete foundation and floor will often more than pay for itself in one year by eliminating this source of loss. A family of full grown rats will eat by actual observation as much dry mash as a flock of twenty-five laying hens, and I am afraid that too few of us appreciate the actual loss which is going on in our flocks from this cause. The internal construction of the house should be made as plain as possible, and should not offer any hiding places for lice and mites. All internal fixtures should be made movable so that they can be taken out of the house occasionally and thoroughly cleaned.

Aside from these factors which have been briefly enumerated a poultry house to be efficient should be economical in construction and convenient in reference to caring for the birds. It is perfectly possible to construct an efficient house for from seventy-five cents to one dollar per bird for material, allowing four square feet of floor space per bird. In planning the house, provision should be made for as many labor saving devices as possible, such as double swinging doors, between pens



### THE CAPITAL BAND

Is adjustable—Has raised figures  
12 for 15c. 25-25c. 50-40c. 100-65c.  
CHAS. L. STILES  
232-M N. 3rd St. COLUMBUS, OHIO

**Wendell's**  
SANITARY POULTRY SUPPLIES  
INCUBATORS, BROODERS, NON-FREEZING FOUNTAINS, FEEDERS, OAT SPRIDERS AND 60 MORE LABOR SAVING ARTICLES FOR THE PRACTICAL POULTRY MAN. GET OUR BIG FREE BOOK ADDRESS  
**WENDELL INCUBATOR CO. HOLLY, MICH.**

## Book on Dog Diseases

AND HOW TO FEED.



Mailed FREE to any address by the author.

**H. CLAY GLOVER, D. V. S.**

118 W. 31st Street, NEW YORK

## Lisk's White Wyandottes

A fine lot of yearling males and females at sacrifice prices for quick orders. This is a great chance for you to get some of my Celebrated Winning and Laying Strain at a low cost. Write your wants, **ROMULUS, N. Y.**

**FRED C. LISK,**

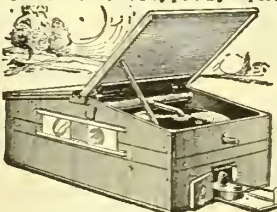
Box L,

**ROMULUS, N. Y.**

## Hodgson Portable Poultry Houses

### WIGWARM Brooder

Hot-water and hot-air heating combined gives perfect ventilation—no danger of overheating—maintains even temperature regardless of cold outside. Used and endorsed by poultry experts and by experiment stations and such men as Dr. A. A. Brigham, Dr. N. W. Sanborn, Dr. P. T. Woods and Mr. A. F. Hunter. Size, 3x5 feet.

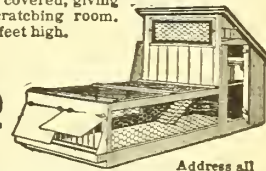


**\$15.00**

**E. F. HODGSON CO.,**

### No. 0 Colony Laying House—

for 12 Hens Fitted complete with nests, fountain and feed trough. Sanitary—easily cleaned. One man can easily care for several hundred birds. Nicely painted—set up in 15 minutes. A comfortable year-round house. In stormy weather the run may be covered, giving a protected scratching room. Size, 10x4 ft., 5 feet high.



**\$20.00**

Send for catalogue. Visit our (Room 320, 116 Washington St., Boston, Mass.) showrooms (Craftsman Bldg., 6 East 39th St., New York) Address all correspondence to Boston

## TRACEY'S SINGLE COMB RHODE ISLAND REDS and ROSE COMB WHITE MINORCAS

My R. C. White Minorcas won five firsts at the last Madison Square Garden Show. Eggs from these birds \$3.00 and \$5.00 per setting for balance of season. Have several cockerels at \$5.00 apiece and 25 pullets at \$2.00 apiece for sale.

My Strain of S. C. Reds are wonderful layers and are great show birds. We have several wonderful fine matings. Every individual a Show Bird. Eggs from these pens \$5.00 per setting, two settings for \$8.00.

**GEORGE W. TRACY,**

**KINDERHOOK, N. Y.**



with friction stops, large self-feeding hoppers, for the dry mash which require filling but once a week, drinking vessels which are easily and quickly cleaned, nests which are easy of access, and the arrangement of all the internal appliances so that the labor required in attending will be reduced to a minimum. After studying these questions enumerated carefully, for the past two years, the New Jersey Station has constructed what we consider to be a model poultry house. This is built on the unit basis, and is called New Jersey Multiple Unit Laying House. I will only say a word or two in reference to this type that you may get in mind the general plan. It is of shed roof construction, nine feet high in front and four and one-half feet in back. Each unit is twenty by twenty feet, having a capacity of one hundred birds, allowing four square feet per bird. The front has a large vertical panel of muslin four by ten feet placed high with two glass panels on either side, three by five feet placed perpendicular. In constructing more than one unit a partition is built every twenty feet from the back wall to within six or eight feet of the front wall, and in this partition is placed large self-feeding hoppers which are homemade. The nests are arranged under a dropping board which is placed along the back wall. An elevated platform runs the length of the house under the muslin openings, on which is kept the drinking fountains and the grit and the shell hoppers. The glass windows hinge at the side and open against the wall while the muslin curtains hinge at the top and lift up. This type of house costs, for all material, allowing four square feet of floor space per bird, eighty-eight cents. This includes cinders and sand for a concrete floor. This house is described very completely in our Bulletin No. 244.

#### WE MUST KEEP OUR POULTRY HYGIENICALLY AND MAIN- TAIN SANITARY SUR- ROUNDINGS

The aim should be to prevent disease rather than cure it. This is in direct line with the present trend of the medical profession and bears out the old adage that "An Ounce of Prevention is Worth a Pound of Cure." In order to do this it must be remembered that we must practice sanitary and hygienic methods and management at all times. There are three factors which are essential to consider in securing and maintaining a clean poultry house.

First. Frequent removal of the droppings. This should usually be done once a week, and oftener if necessary. Where an absorbent is used on the dropping board a good rule is to clean same as often as the droppings become wet and do not dry out quickly, for in such a condition they give off an objectionable odor which is not present when they dry out immediately and become hard.

Second. The condition of the litter is also a special consideration. The floor should be kept covered with some good scratching material, which

should be kept fairly free from any excessive moisture, clean and relatively coarse. It should be removed and replaced with fresh material whenever it becomes moist, due to long spells of damp weather in the spring; whenever it contains an excessive amount of droppings from which the liquid is not immediately absorbed resulting in its becoming hard and packed; and whenever it becomes finely ground. By using a good, coarse straw, such as rye, or wheat, covering the floor to a depth of six or eight inches in the fall, and frequently adding to this a little clean, coarse, fresh material, a desirable litter is maintained.

It is not usually necessary to make a general removal of the litter oftener than twice a year, spring and fall.

Third. This general cleaning should be practiced at least twice a year, and if occasion demands, oftener. Such a cleaning should comprise the following practice:

The removal of all portable fixtures such as nests, drinking fountains, hoppers, etc., washing them all and placing them out in the sunshine to dry. The washing and cleaning of all window lights. The beating of all muslin curtains to get the dust out and make them more open to give better ventilation; it is well to do this at least every month as there is a great deal of dust accumulated due to the birds scratching in dry litter. The cleaning out of the litter and nesting material. After which the interior of the house and all fixtures should be thoroughly sprayed with the following solution: 5 quarts of cream of lime, 1 pint of zenoleum, 1 quart of kerosene.

This mixture should be agitated well and diluted with equal parts of water and applied with a force pump through a spray nozzle. A thorough application of this solution will accomplish three things more quickly and easily than if the solution were applied with a brush.

1. A good coat of whitewash will be applied thin, and well spread and

put on with a force so that it gets into all of the cracks and crevices.

2. The zenoleum will kill any disease germs which may be present in the house, and give it a sweet, clean smell.

3. The kerosene will help to kill and drive out red mites and to a certain extent body lice.

The above solution, if frequently used, is cheap, easily applied and efficient in its results.

Where mites abound in considerable numbers the best treatment is to paint the perches and roosting

#### BABY CHICKS AND DUCKLINGS

S. C. White Leghorns	-	10 cents each
White Rocks	-	12 cents each
White Runner Ducklings	-	20 cents each
Catalog Free.	Capacity 100,000 annually	

BABCOCK POULTRY FARM, FREDONIA, N. Y.

## LOUSE POWDERS

are many, Lee's is the best buy.. First, because a pound and a quarter for 25 cts. instead of the usual 15 ounces; second because obtainable at most every town; third because complying fully with the Insecticide Law. Equally good for grown fowls or chicks. Especially fine for setting hens. You cannot raise chickens

profitably unless kept free from lice and you need something that is economical and easy to use as well as effective. That's Lee's. Put up in round sprinker tin cans. 2 sizes, 25 cts. and 50 cts. Sold by 10,000 dealers in U. S. and Canada. Write for free poultry books and pamphlets.

GEO. H. LEE CO., OMAHA, NEBR.

## YOUNG CHICKS



dile of bowel trouble more than any other cause. It is estimated that of every 1000 chicks hatched each year less than 400 reach marketable size. Germozone users raise, usually, 90% of chicks hatched. Germozone keeps the bowels regular. It prevents diarrhoea from overdrinking of water; from eating musty or spoiled food, etc. It should be given in drinking water twice a week from the day they are hatched. It stops the loss. Every chick that dies cuts badly into the profit from the rest. Every chick saved will pay the cost of a bottle of Germozone.

One size only, 50 cents, at dealer's or postpaid.  
GEO. H. LEE CO. Omaha, Nebr.

## SAND'S SINGLE COMB WHITE LEGHORNS

are recognized by all who have tried them as peerless layers. Carefully bred for egg production they are unequalled for the foundation of a business flock. Put your plant on a paying basis by introducing this strain. Stock for sale at all times—Eggs and Baby Chicks in season.

LEROY E. SANDS,

Box W,

HAWLEY, PA.

## BLACK SPANISH

All First Prizes at recent Chicago and Boston Shows.

Some wonderful trios at \$30.00.

Single birds \$15.00 each. Eggs \$5.00 per thirteen. Each additional Thirteen \$4.00.

R. A. ROWAN,

200 Title Insurance Building,

LOS ANGELES, CALIF

### POULTRY PROFITS DOUBLED



Progressive poultrymen know that ordinary poultry brings only 10c. to 15c. a pound on the market, while Capons readily sell for 30c. a pound. The same time, care, feed and labor required to raise ordinary poultry will produce Capons,—but you get double price. Capons make quick meat, tender meat and much of it. The demand for Capons is rapidly increasing and will continue to increase. There is positively no reason why the demand should decrease.

#### "PHILADELPHIA CAPONS"

are now on the bills of fare in about all of the finest hotels, restaurants, and cafes in the United States and Canada, and the price is always high.

Caponize your surplus cockerels and double your poultry profits.

Caponizing is not difficult and perfection comes with little practice. Many poultrymen make money caponizing for their neighbors.

#### PILLING CAPON TOOLS

A "PILLING" CAPON Set with "Easy-to-Use" directions will be sent prepaid on receipt of \$2.50. Send to-day for our free book, "Guide for Caponizing."

GEO. PILLING & SON CO., 23rd and Arch Sts., PHILADELPHIA, PA.



quarters with a good solution composed of equal parts of zenoleum and kerosene as the above general solution will not kill all of them. Where body lice abound the birds should be



The beautiful White Wyandotte cockerel shown above is the product of Fernbrook Farm, Arthur C. Bouck, Mgr., Albany, N. Y. This bird won first at Albany last winter, also special for best solid colored bird in the show and special for best Wyandotte cockerel any variety. This farm is conducting a summer sale of breeders and is offering some attractive values.

dusted twice, at an interval of about a week, with a good lice powder.

#### HAVE CLEAN, SWEET YARDS

Tainted yards carrying infection and filth aid greatly in increasing the possibility of disease being held and spread from one flock to another or from individuals in the same flock. The best and safest practice is to provide as large yards as possible, for the larger the yard the less danger of an excessive amount of filth accumulating. Where it is necessary to have small runs, the frequent cultivation of same will aid greatly in reducing the possibility of the excessive accumulation of infection.

For the poultryman who is compelled by lack of space or other causes to closely confine his birds during the summer, it will be found very profitable to divide the run or yard given them into two, and to rotate green crops, allowing the birds first to feed in one yard, and then in the other. By planting seasonable crops like peas and oats, peas and barley, buckwheat, millet, cow peas, and late in the summer such crops as vetch, crimson clover, and wheat or rye, the birds will have a continuous supply of green food during the summer and green crops to feed on early in the spring. If these crops are allowed to make about four inches to six inches growth before the birds are turned in on them, they will not become woody nor will the birds clean them up in a day or so, but they will supply the birds with green food for about four weeks, or while another crop is growing. This method not only supplies the succulent feed in the cheapest and best form, but also purifies the runs and keeps them in a clean, healthy condition, which is

an important item when a lot of birds are given restricted range.

The poultry yard should not only be kept sweet and clean, but it should be supplied with an abundance of natural shade, growing trees, etc., they may be made to yield a double income, but while these are young the use of corn or sunflowers have proven especially desirable for this purpose.

In conclusion let me say that with any flock of birds possessed of a high vitality and properly fed, their efficiency and the amount of egg production will vary in direct proportions to the care and attention which is devoted to providing them with congenial surroundings. Environment affects directly or indirectly the result of all of our operations. It constantly influences vitality. In the case of undesirable environment the digestive system will not react to the best advantage. In the case of disease prevention, environment is an important factor in maintaining vitality and stamina which aid in throwing off infection. Egg production is a natural function requiring the co-operation of many forces, all of which are affected and controlled indirectly by the temperament of the bird, and this in turn is affected, for good or bad, as she is contented and satisfied, due to being given ideal surroundings or as she is dissatisfied and discontented, due to being given an uncongenial environment.

\*\*\* Twenty-five cents will secure for you a copy of "Reliable Poultry Remedies." Tells you symptoms of diseases and how to treat sick fowls \*\*\*

\*\*\* Your favorite magazines at reduced prices in our Clubbing Catalogue. Send for copy today \*\*\*

## Columbian Wyandottes

10 cocks and 100 hens. Cut prices for next 30 days. Ask for prices and descriptions.

LEVI A. AYRES, Box B, GRANVILLE, N. Y.

## Indian Runner Ducks

ENGLISH PENCILLED

At Buffalo International Show, 1914, I won three 1st and one 2nd on four entries. A few choice breeders and young drakes for sale. Catalogue free.

Sidney A. Woodcock, Box 52, Fredonia, N. Y.



First Prize  
Buffalo,  
1911.

First Prize  
Boston,  
1909.

### FOR SALE

### 2000 S. C. White Leghorn LAYING FEMALES

Those who have seen these birds in their free range out on my Massachusetts farm say I have never had a finer lot—and it does seem to me it's so. They certainly are a sturdy flock of birds, and every one Fiske Strain, the kind that have stood right up in the front row when the prizes were awarded at Madison Square, Chicago, Buffalo and Boston. I'll sell you the best of Utility hens for \$1.35 and up. If you want eggs now, you can have them at half price. Send for catalog and circular on Fiske's Leghorns laying record.

HARLO J. FISKE  
WHITE LEGHORN FARMS

891B Westfield St. W. SPRINGFIELD, MASS.

#### GREAT SUMMER SALE AT FERNBROOK FARM

### WHITE WYANDOTTES, MAMMOTH PEKIN AND WHITE RUNNER DUCKS

Hundreds of fine breeding birds at one half our regular prices. Don't miss this sale. Remember our birds have won at Madison Square Garden, Albany, etc. For prices write

FERNBROOK FARM, Arthur C. Bouck, Mgr., Menands Road, ALBANY, N. Y.

### THIRTY EGGS FOR THREE DOLLARS

Golden and Silver Campines and White Faverolles. A few settings of Buff Faverolle Eggs at \$5.00 per 15. Yearling birds at extremely low prices.

AUG. D. ARNOLD,

Box D.

DILLSBURG, PA

## TOLMAN FRESH AIR STRAIN

White Plymouth Rocks Baby Chicks. The famous south shore soft roaster strain. Price during July, August and September, \$12.00 per 100.

JOSEPH TOLMAN, R. F. D. No. 1, Dept. G. ROCKLAND, MASS.

## SINGLE COMB WHITE LEGHORNS EXCLUSIVELY

### D. W. YOUNG'S STRAIN

The finest in the World. Bred for their great winter laying qualities. Milk fed. Over 2,000 layers on free farm range. Largest plant of high class breeders in the world at farmers prices. Eggs for hatching now ready in any quantity at \$5 per 100; no order too large. Baby Chicks \$8 per 100; capacity 6,000 weekly. Prompt shipments for July. My book, "Profits in Poultry Keeping Solved," shows where the money is—price \$1.00 the edition—Given free with all \$10 orders. Satisfaction guaranteed.

Descriptive Circulars Free.

EDGAR BRIGGS,

Box 31,

PLEASANT VALLEY, N. Y.



## "FALSE AND MISLEADING IMPRESSIONS."

(Continued from page 689)

during the last week in March as a preparation for some experimental work. They had plenty of water but no food. Of course egg production ceased entirely. By April 19th, I had them all laying again, and during the 32 days between that and May 20th, they laid 302 eggs, or a daily average of over 72 per cent. Few if any of the young hens in the egg laying contests did better.

On May 21st, I substituted a new feeding formula from which all grain or scratch feeds was omitted. There sole food now consists of a supply of dry mash constantly before them. At the first I wet a little of this into a wet mash once a day, but am gradually reducing the wet feed. For the past six days they have averaged ten eggs a day, a daily average of over 76 per cent. They have no range and no green food of any kind. Just one pan of water to drink from and one box of feed to eat from.

On May 21st I had two hens bring out a bunch of chicks after setting three weeks. Their egg producing machinery must have been entirely dormant. I gave the chicks all to one hen and placed the other in a pen where she can get nothing but some of the same formula of dry mash and water. She recovered from the broody fever, and started her egg producing machinery so that she laid an egg on the morning of June 1st in just eleven days. She happened to be on the nest early in the morning when I was distributing water, so I waited and was eye witness to the operation. All of which goes to prove that we are only just beginning to learn that the possibilities of the hen as a rival to the cow in turning the products of the vegetable kingdom into animal food for man.

### OCULUM DID IT

From time to time the manufacturers of "Oculum" have favored us with testimonials received from users. Although these have been from widely separated sections and have mentioned various diseases common to poultry, each and every one claims to have found a cure in "Oculum". As a sample of what this remedy appears to be doing we print the following:

H. I. Co.,  
Salem, Va.

Enclosed find \$1.00 in payment for bottle of "Oculum" sent me in Nov., 1913. I have waited this long in paying because I wanted to see what it would do for my chicks as I have been losing 50 per cent. and more every spring and was about ready to quit trying to raise them until this spring, I wrote you for your remedy and used it as directed (that is injected it) and have only lost four chicks out of 100 chicks and as the eggs have always been strongly fertilized, and have used the same methods of hatching, I am forced to admit that "Oculum" did it.

Thanking you for waiting on me so long, I am,

Yours very truly,

J. Albert Lloyd,  
1015 Sylvania Ave.

\*\*\* How to feed and care for baby chicks is told in a comprehensive manner in the "Chick Book." Fifty cents secures a copy \*\*\*

## UNITED BREEDERS SPECIAL SALE LIST

Among those who have inaugurated a summer sale we wish to mention the United Breeders, 334 Pond St., South Braintree, Mass. In their summer offerings are included sixteen of the past season's breeding pens, both combs, some of which are headed by last season's winners. For example, "Mi Favorita" the male at the head of pen No. 16, won third prize at Boston and \$150 was refused for him. As the proprietors of this farm express it, "In this sale just to give you a chance at a crackerjack". There are many other good ones too. If you haven't received a copy yet you better write today. We might also add that you would undoubtedly be surprised to learn to what extent this blood has participated in the winnings for the past few years. We do not care to mention the names or places here, but suggest that you get the literature sent out by his farm and learn some of the facts direct.

### HOUSTON'S BARRED ROCKS

James T. Houston, the well known Barred Rock breeder of Williamsport, Pa., advises that he finds it necessary to dispose of some of this season's breeders, both matings, and that he has selected 10 cocks and 30 hens all good ones and worth double the prices quoted, namely \$5.00 each for the cocks and \$2.50 to \$3.00 each for the hens. This is no more than one would expect to pay for good utility stock, but as we know Mr. Houston to be reliable we believe that when he says "These birds are dandy good ones, used in this season's matings, and worth two and three times the price asked, even at this season", that they are just as he represents them and are bargains that those interested in Barred Rocks cannot afford to overlook. Kindly mention A. P. W. when writing.

## LARGE EGGS!

How? Why, feed your hens right! Free book "The Golden Egg," tells how. Write today. HUMPHERY, Buff St. Factory, Joliet, Ill.

## MERIHUE'S BUFF LEGHORNS

The 20th Century Egg Producers. Make another great win at Madison Square Garden, Dec., 1913. Utility Breeders, Show Birds and Eggs for sale. Write for mating list then be your own judge who has the best.

L. E. MERIHUE,

## LEGBANDS

There is no need for spraying so often. Rooste painted with no No-More-Lice just once a year (in Spring—now) will positively be absolutely free from mites and lice the whole year. This means contented hens. Increased egg production. \$1.00. Think, think, and act now.

**SPECIAL OFFER.**—If you order from this adv. we will send you special value viz: 50 Spiral Celluloid Legbands (state breed and color) and a tin of No-More-Lice for only One Dollar. Money back without quibble if not satisfied. Do it now.

PERFECT POULTRY SUPPLY CO.,

Box 1965.

LYNBROOK, N. Y.

## STEER THE MIDDLE COURSE IF YOU WISH TO REACH SUCCESS



It is the plan which overcomes all objections to the extreme methods of *Dry* and *Soft* feeding and yet combines their good points so as to derive the greatest amount of benefit from the food consumed.

Let The First Morning Feed Consist of

### SPRATTS' CHICK MEALS No. 5 & 12

mixed with hot water or fed crumbly moist, and Let the Evening Meal Be

### SPRATT'S CHICK GRAIN

which is acknowledged to be the best mixed grain food on the market. Write for samples and send 10 cents for "Poultry Culture."

SPRATT'S PATENT LIMITED, Newark, New Jersey

## KENTUCO WARE

Mechanically perfect—looks it—protects bird health and profits. Send for big free circular. KENTUCKY STAMPING CO., 114 15th St., Louisville, Ky.



**HERE IT IS FOR ONLY \$4.00**  
A GREAT BIG HAND GRINDER that will furnish 1 to 2 bu. per hour of ground corn, oats, peas, dry bone, etc., for poultry feed. Shipping wt. 40 lbs. Get Circular. Stover Mfg. Co., 321 Plymouth St., Freeport, Ill.



"IF CHICKEN CHOWDER won't make your hens lay, they must be roosters". Full particulars and 48-page Poultry Book free for the asking. PURINA MILLS, 817 So. 8th St., ST. LOUIS, MO.

**COVERT'S S. C. BUFF ORPINGTONS**  
Winners at the largest shows and grand Pens mated for Eggs and Baby Chicks. Send for catalogue and learn more about the coming BUFFS.

Harry Covert, Spec., 2500 N. 13½ St., Terre Haute, Ind.

### FOGG'S S. C. WHITE LEGHORNS

Get our special Summer prices on eggs for hatching, breeding birds and young stock. We guarantee satisfaction. Write us your wants.

N. V. FOGG, Box W, MT. STERLING, KY.



## 1913 Catalogue Free

Illustrates and gives prices; 45 varieties land and water fowls and eggs. Send your address on postal card to

S. A. HUMMEL

Box 80,

FREEPORT, ILL.

ARE YOU RAISING

### The Commercial Hen?

Utility Poultry is The Key-note of

## THE COUNTRY GENTLEMAN

The farm weekly that is different. 5 cents the copy at all news dealers. \$1.50 the year by mail.

The Curtis Publishing Company

Independence Square, Philadelphia, Pa.



## THE SINGLE COMB BROWN LEGHORN

By F. G. Cook

Supt., Grove Hill Poultry Yards, Waltham, Mass.

(Continued from page 687)

many cases a novice is apt to pay too much attention to the individual points of the cockerel bred females and pullet bred males, and often a specimen is selected that shows up well itself yet the line from which this bird was bred was of a very inferior order. Remember that blood lines count more than individual qualities; that often times a bird will show unusual quality even when bred from ordinary stock, yet the second generation will seemingly bring out all the bad points that have lain latent in the bird bred from. When we select a cockerel bred male to head one of our pens we therefore select the best show specimen we have at hand and in selecting the mates for this bird give special attention to securing females that are especially strong in any characteristic that the male may be lacking in, and beyond that, consider fully the vital breeding points in the sire of these females and if we find any tendency to weakness in the parent bird similar to that shown in the male, we intend using, these females are rejected even though their apparent quality is first class.

### THE PULLET BRED MALE

On the other hand in our selection of a pullet bred male we give first consideration to the dam of this bird, if she was what we desire in color and fineness of stippling, in shape, striping of hackle and head points we then look for the amount of quality to be found in the sisters of the male bird under consideration. If the general average of these are good, and the quality compares favorably with the quality of the dam of the cockerel we consider that we are very safe in using this male. Our aim is to improve the even top color of the exhibition male and at the same time retain the very best of striping, also to breed for fine head points and to secure a similar shape as found in the best white Leghorns of the day.

We can note a decided improvement in all of these points in the last few years, especially in the doing away with the decided angle at the meeting of tail and back. On exhibition females we are aiming to secure fine even stippling with the absence of shaft and brick, good length of back and medium low carriage of tail, moderately full, and combs as described in the Standard,—first point to stand erect and remainder falling over to one side, avoiding, under all conditions, any tendency to straight combs and on the other hand not to consider a comb that is so large as to obstruct the sight in any way.

### EVERY READER

Should obtain a copy of the 32 page booklet that is sent free to A. P. W. readers by the R. T. French, Co., Dept. B, Rochester, N. Y. Better write or drop a card today.

## HOW TO SAVE LABOR AND MONEY IN PROVIDING THE BEST POULTRY HOUSES AND EQUIPMENT FOR YOUR POULTRY

More poultry raisers are learning every year that they can save time, labor and money as well as worry, when it comes to building and making the fixtures for their poultry houses. The factory made, ready built poultry house and equipment solve the problem for poultry keepers. This making of portable poultry houses and hennerly outfits of all kinds has been worked out to a science in manufacturing plants making it possible to supply well built houses at low prices. Better material is also used because it can be bought in large quantities and in cutting up hundreds of pieces all defects are cut out of the lumber. All the worry and valuable time required for planning and building is done away with when you buy a portable building because the work has all been done at the factory. Any poultry keeper can order almost any size made up all complete ready to erect in a few hours.

One of the foremost and largest manufacturers of up-to-date portable poultry houses and equipment is Potter & Co., located at Downers Grove, Ill. For over 13 years they have been manufacturing poultry houses and equipment of all kinds for poultry keepers and they number among thousands of satisfied customers, some of the largest and best equipped poultry plants in the country. Aside from the portable poultry houses they also specialize in portable hennerly outfits which make a complete equipment for any poultry house. A portable hennerly outfit consists of roost, drop board, and nesting system, and is one of the most complete and sanitary hen house equipments on the market.

This company also makes a full line of food hoppers, brood coops, fireless brooders, etc.

Any of our subscribers who are in need of portable houses or poultry equipment of any kind should refer to the ad of Potter & Co. in this month's paper and send for their large catalogue, enclosing 4 cents in postage for mailing of same.

Their address is P. O. Box E 16, Downers Grove, Ill.

\*\*\* For Magazine bargains you should send for a copy of our Clubbing Catalogue \*\*\*

**GET MORE EGGS**  
Twice as many by feeding green cut bone.  
**MANN'S BONE CUTTER** 10 Days Free Trial  
No money in advance. Cat'g free, 4c.  
F. W. Mann Co., Box 355, Millford, Mass.

**Dartmoor Dark Cornish** Win at Chicago, Dec., 1913. 1-5cock, 4-5 hen, 1 cockerel, 2 pullet, demonstrating the fact that the Dartmoor line is still a leader among Cornish. A limited number of eggs for disposal. Write your wants.  
**Dartmoor Yards, C. S. Breat, Prop., Oconomowoc, Wisc.**

**DUTTON'S R. and S. C. RHODE ISLAND REDS**  
made another great win at the Grand Central Palace and Buffalo shows. Eleven Blue Ribbons and many specials. I sell Birds, but No Eggs.  
**E. M. DUTTON, NEWFANE, N. Y.**

**MONMOUTH LEGHORNS PRIZE WINNERS**  
S. C. White and Buff Leghorns of the best strain of the best egg laying breed. The "20th Century Dual Purpose Fowl." Write for catalogue.  
**MONMOUTH FARMS, Box 82, FRENEAU, MON. CO. N. J.**

## The Improved Champion Leg Band



Aluminum only, two sizes, adjustable to fit any fowl. Held by double lock. They can't lose off. Postpaid 12-15c; 25-20c; 50-35c; 100-60c. Initials 10c per 100 extra. 50 or less 5c. Also Pigeon Bands.

**T. CADWALLADER, Box 1412, Salem, Ohio**

**RAISE EVERY CHICK**  
on  
**"HEN-E-TA" "HEN-O-LA"**  
The  
**Phosphatic System!**

The more phosphorus in the egg and the more phosphorus in the egg-shell, the greater the fertility, the better the hatch and the harder the new-born chick.

The Hen-e-ta-Hen-o-la System eliminates all bowel-trouble; reduces mortality to a minimum; grows and develops the chicks faster and cheaper into strong, rugged, healthy "egg-producing" birds.

Ask your dealer or write us for new booklet, entitled: "The Successful Way to Grow Little Chicks."

**HEN-E-TA BONE CO.**  
Dept. W., Newark, N. J.

## WHITE ORPINGTONS International Champions WHITE ROCKS

Two pens each very select, will spare a few eggs.

**HIGHWORTH POULTRY YARDS, LONDON, CANADA**  
Fred A. Andrewes, Proprietor

## EL-CO-VA FARM :: WHITE WYANDOTTES :: S. C. ANCONAS ::

Best Matings \$5.00 per setting of fifteen eggs. Second best matings \$3.00 per setting. Two settings \$5.00. Third best matings \$2.00 per setting. Three settings \$5.00. Anconas utility eggs \$8.00 per hundred. Winners Buffalo, Philadelphia, Albany, Yonkers and Poughkeepsie.

**EL - CO - VA FARM, Elias C. Vail, Owner, VERBANK, N. Y.**

## RUSSELL FARM

**WHITE WYANDOTTES S. C. RHODE ISLAND REDS**

Winners at the leading shows of the U. S. and Canada. Our record at Madison Square Garden and Boston is sufficient proof of quality. At Boston, Jan. 1914 the White Wyandotte show of America, our White Wyandottes were awarded 1-5 Cock; 1-2-4 Hens; 3-6 Cockerels; 1-2 Pullets; 1-3-5 Pen. For complete winnings this season on Wyandottes and Reds, also prices on eggs and stock, write

**RUSSELL FARM, 437-W. Jarvis St., TORONTO, ONT. CAN.**

## CHRISTIE'S S.C. White and Brown Leghorns

Having been bred for fourteen consecutive years—represented all over the World—they stand today without an equal as egg producers, the foundation upon which all branches of the Poultry industry hinges. Before placing your order, write today for our illustrated catalogue, and read what thousands of our pleased patrons say in regard to the WORLD'S GREATEST LAYERS. "Better be right than sorry".

**S. C. WHITE and BROWN LEGHORN CHICKS—\$15 PER 100**  
**WAYNE POULTRY FARM, F. W. Christie, Prop., Box 67, STONY POINT, N. Y.**



## IMPORTING EGGS FOR HATCHING

By W. W. Graves, Jefferson City, Mo.

(Continued from page 686)

He was instructed to let the hens off for 20 minutes each day for feed and water, and that they might "stretch out" their legs. May 30th, Saturday, they reached New York, but being too late for train to the West that day, were kept over in New York until Monday, and reached me here early upon Wednesday morning.

### ARRIVE SAFELY

The hens looked as though they had been well cared for on the trip. They were on the nests as cozily as if they had been in their own English hen-house. Each had the fourteen eggs given them in Liverpool. One hen had "mussed" her nest, and I had to clean the eggs in tepid water the day of her arrival. I kept up the feeding for 20 minutes each day. On June 6th, the other hen, in some way broke an egg, and I had to wash her eggs in tepid water. On June 9th, the hen whose nest was in good condition upon arrival began to hatch, and by the morning of the 10th had 9 chicks to her credit. The others seemed to have been fertile, but did not develop far. The hen whose eggs were mussed upon arrival did not begin to hatch until the morning of the 10th, and hatched 4 chicks that day. At five o'clock she had two more eggs "pipped," and in

another you could hear the chick. The first two got out nicely during the night, but the other died in the shell. About half of her remaining



An undefeated S. C. White Leghorn male owned and bred by Lewis T. McLean, Ondawa Farms, Shushan, N. Y. Winner of first at Albany, 1912, first at Schenectady, 1913, and head of first pen Albany, 1913.

eggs looked as if they were infertile. The ultimate result, therefore, is 9 chicks from one hen, one of which has three legs, and will not live long, and six chicks from the other.

Whether I have demonstrated that it is the staleness of the eggs which prevents imported eggs from hatching, I leave it to my brother fanciers to determine. My experiment I consider rather successful so far as the hatch is concerned. It may be that eggs in smaller packages are jolted more, and it may also be that they are permitted to heat en route. It

is evident that the ocean and train jolts will not kill all the germs, if they are incubated en route.

You ask about the cost of the experiment. The transportation charges were \$34.24, which includes the £1 given the "butcher" on the Baltic. The coops were larger and heavier than need be, and this, of course, added to the costs.

Herewith I send you picture of one of the coops as it is closed and ready for transportation. Also a picture showing one of the hens actually on the nest as she came over, and, lastly, the two hens and the chicks hatched.

The eggs, as stated, were from a specially mated pen of Painter Bros. best Indian Games, and I shall take pleasure in reporting further the result of the chicks.

### A NEW LEG BAND

Chas. L. Stiles, "the band man", Columbus, Ohio, has a change of copy in this issue. Mr. Stiles has added a novelty in the new colored celluloid bands. The use of these colored bands makes the identity of the specimen possible without the bother of catching the bird and examining the band for the number. Look up his "ad" and write him for descriptive circulars and prices.

### FREE BOOKLET

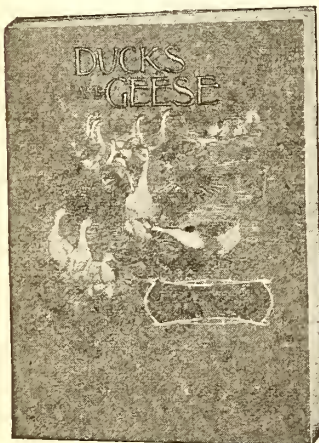
"Mustard for Poultry" is the title of a 32 page booklet that R. T. French Co., Dept. B, Rochester, N. Y., will send free to all who write for it. This booklet gives some new thoughts on the feeding question and every reader should have a copy. A postal will bring it.

# DUCKS AND GEESE

HOW TO SUCCEED WITH WATER FOWL. NEW AND IMPROVED EDITION.

Enlarged and Revised to Conform to the 1910-1915 Standard of Perfection

A Practical Manual, giving Full and Authentic Information and Advice on the Subject of Breeding and Raising Ducks and Geese for Market, for Breeders and for Exhibition. How to Dress, Pack and Ship Ducks to obtain the Highest Prices. A Complete Guide to Profitable Duck and Goose Rearing.



80 PAGES, 9 x 12 INCHES

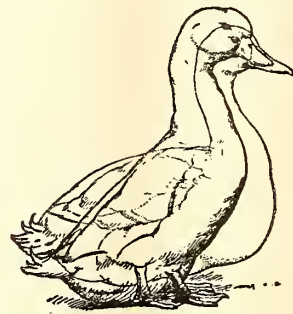
This Book is one of the Series of Breed Books issued jointly by the American Poultry Publishing Company, Buffalo, N. Y., and the Reliable Poultry Journal Publishing Company, Quincy, Ill., which far excel anything of the kind ever before attempted in this line.

The Contents of this New Edition include: Origin of the Duck; Development of the Duck Industry; Father of the Pekin Duck Industry in America; Comparison of Shapes of Ducks; How Best to Start; Profitable Pekin Ducks; Hints for the Amateur or Small Breeder; The Long Island Duck Industry; Results of Crossing; Pennsylvania Duck Industry; Shipping to Commission Men; Indian Runner and Rouen Ducks; Articles on Feeding, Housing, etc.; Duck Rearing Abroad; Domesticated Geese; Housing, Feeding and Rearing Geese; Goose Growing for the Farmer; Toulouse Geese; Crossing, etc.; Artificial Pond for Water Fowl; Sebastopol Geese, etc., etc.

Among the Writers of Articles are the following: Franklane L. Sewell, James Rankin, Charles McClave, P. T. Woods, Mrs. B. F. Hislop, H. E. Moss, Mrs. A. M. Bush, Robert H. Essex, William Bonner, W. R. Curtiss, S. T. Campbell, R. H. Crandall, V. C. Harwood, Louis B. Schram, J. D. Rake, C. C. Herron, T. F. Jager, F. D. Fowler, Edward Brown and Grant M. Curtis.

### ESPECIALLY FINE ILLUSTRATIONS

The World's Leading Poultry Artists, Franklane L. Sewell and A. O. Schilling, have furnished full page illustrations and charts, comparing the shapes of different breeds. There are many other attractive reproductions of photographs showing flocks of each breed, duck ranches, special duck houses, etc., both in this country and abroad.



Specimen Illustration (Much Reduced)

PRICE, 75 CENTS, POSTPAID, or \$1.00 including a year's subscription to American Poultry World, or will be sent free for three annual subscriptions to American Poultry World at 50 cents each. Address,

**American Poultry Publishing Company, Buffalo, N. Y., U. S. A.**



## THE PEKIN, A DUCK FOR FANCIER OR MARKET GROWER

By Arthur C. Bouck

Fernbrook Farm, Menands Rd., Albany, N. Y.

(Continued from page 685)

### DUCKS GROW RAPIDLY

Fertility of eggs runs high and eggs hatch successfully with either hens or incubators. In the duck growing sections incubators are used almost exclusively and many growers have had mammoth machines constructed especially for their needs. One of the first of these mammoth machines was installed by A. J. Hallock on Atlantic Duck Farm, Speonk, L. I., and had a capacity of 36,000 eggs at one time. Brooding methods have made similar advancements and now we find large brooding houses with hot water systems that successfully care for the little fellows during their early stages of development. In this particular ducks differ somewhat from chickens as they do not require as much heat; and in a comparatively short time do not seem to require it only to a limited extent, and when once given a good start they grow like weeds. This is one of the many points that recommends them to the commercial grower.

### POPULAR WITH FANCIERS

As a fancier's duck they are unsurpassed. Their beautiful plumage, nicely moulded bodies and gracefully arched necks set off with orange-yellow beaks and reddish-orange shanks form a combination that is bound to appeal to all lovers of poul-

try. Only those of us who have seen a flock of exhibition Pekins on water or foraging in a green field can appreciate the beautiful picture they make.

The writer is not a new man with Pekins as I have bred them in limited numbers for the past twenty years. I have been pleased to note the improvements made in both color and type in the past ten years. However some breeders in their rush for size seemed to forget type and head points, and we see many Pekins in our exhibition halls with Rouen and Aylesbury type. I wish to say a word along this line as some judges do not seem to understand the requirements of a good Pekin and award prizes to specimens very much on the Aylesbury style. While the Pekin must possess a rather heavy body it should not incline to Aylesbury or Rouen carriage, but be quite upright, not to such an extent as the Runners, but the keel should be carried at quite a sharp angle when compared to the Aylesbury. There is no doubt in my mind but what some breeders have used Aylesbury crosses in their endeavor to increase size.

It is the slightly upright carriage in the Pekin that gives them the alert and somewhat sprightly look so much in contrast with either of the two varieties above mentioned.

In the operations at Fernbrook Farm we have endeavored to produce a duck as near the standard as possible and I am pleased to say that we have succeeded in obtaining size far above the average and have also held to the beautiful Pekin type, and head points. Our record at Madison Square Garden and Albany last winter

proves the above statement which is made without fear of contradiction, as I believe all fair minded breeders and judges who saw our exhibition will agree. We have many flattering letters from breeders who have seen our birds and we have been compelled to refuse two-thirds of the orders offered us for the breeders, eggs and ducklings.

### GOOD RESULTS

While the past season has had many drawbacks from the standpoint of a poultry raiser, and as a general thing the hatching season has not been as good as we would like to have had it, still there are some bright spots as many A. P. W. advertisers advise us of the good results secured. The following extract from a recent letter from F. C. Lisk, breeder of White Wyandottes, Romulus, N. Y., is a fair example. Says Mr. Lisk, "I shall make especially attractive prices on yearling breeders, because I must have the room for my young stock."

"I have double the number of young birds I ever raised before, really more than I expected to raise, but eggs have hatched so good and I never had such good success in raising them. They are so strong they can't help but live and grow. This shows what great constitutional vigor will do, as you know I have been taking special pains along that line".

This sounds good and perhaps as others get the opportunity to count heads they will have similar reports to make. In the meantime all those wishing to secure vigorous, bred to lay and win White Wyandottes should write Mr. Lisk.

### 'WILLOWS POULTRY FARM

Frank E. Hering, Prop. Willows Poultry Farm, Lock Box 488, South Bend, Ind., reports a very successful hatching season with the chicks doing remarkably well. He will make a specialty of supplying exhibition stock in either Silver Campines or Leghorns for the fall fairs and early shows. When writing kindly mention A. P. W.

# American Poultry Association

The poultry industry of this country amounts in the aggregate to One Billion Dollars per Annum. These figures paralyze the imagination.

The American Poultry Association is the largest live stock organization in the world and its membership is increasing with tremendous rapidity. On its roll are the leading breeders and representative poultrymen of Canada and every state in the Union.

Every breeder, fancier, man or woman, in the United States or Canada who is interested in poultry of any kind should join this great organization. On its shoulders rest this gigantic Billion Dollar Industry.

Your interests will be promoted and safeguarded. You may compete for the Association diplomas and gold and silver medals at the shows, and be entitled to all the help that honest organized effort can give you.

You will have a voice in shaping the course and policy of the Association, making it recognized by nations and governments.

Your name should be one of the thousands of honored members of this Association. We urge you to write immediately for information and application blank. Address,

## AMERICAN POULTRY ASSOCIATION

Mansfield, Ohio

E. B. THOMPSON, President,

S. T. CAMPBELL, Secretary

## The American Standard of Perfection

THE STANDARD OF PERFECTION is the official guide for the breeding, mating and judging of all poultry. It gives a close and detailed description of every breed and variety of chickens, ducks, geese and turkeys, with illustrations from living models. This book is published by the American Poultry Association at an enormous expense and is the American Authority. You cannot raise poultry successfully without this American Standard of Perfection. Prices, postpaid from the publisher of this paper: Cloth binding, \$2.00; Leather binding, \$2.50. Send all orders to the American Poultry World, Buffalo, N. Y.



## SPRAYING

### Is "The Ounce of Prevention"

Spraying pays. It pays for the same reason that "locking the barn door before the horse is stolen" pays. Proper spraying proves profitable in two ways, it prevents the ruination of the crops by destructive insects or fungus growths, or both; second, it actually adds to both the quality and the quantity of the crops. However, it might



be well to state here the virtue of careful, thorough spraying is that of a preventive character rather than curative. It is "the ounce of prevention".

Proper spraying will destroy destructive insects and prevent the formation of ruinous fungus growths if (we emphasize the "if") it is thorough—if the spraying mixture is correct for the tree or plant and the insect or fungi liable to attack it—if the spraying is done at the proper time.

Perhaps the thing most essential to



successful spraying is that the spraying be done at the proper time—not too early or too late. A mistake either way will affect results. Many agriculturists find the "spraying Calendars" issued by several well-known concerns exceedingly helpful in this regard. One of the most comprehensive calendars of this nature, we are informed, is that one published by the E. C. Brown Co., of Rochester, N. Y., who have made the subject of sprayers and spraying their sole study for over 15 years. We understand that this company will send complimentary copies of this calendar to all readers who apply.

The form of sprayer that will meet



the requirements of the majority of persons is, of course the hand size sprayer. In fact, many experiment stations, farmers, orchardists, poultrymen and truck growers, as well as persons owning little home gardens, find a capable hand size sprayer of the greatest convenience for all-round work. One style of hand power sprayer that we hear about frequently is Brown's Auto Sprayer No. 1, of which we are told there are over 250,000 in use.

Those of our readers who own this

style tell us that it is ideal for use around home and for spraying field crops up to five acres—or orchards up to one acre. It is also valuable for spraying interiors of farm buildings,



especially poultry houses, and may be used for applying whitewash. It has a five gallon capacity and is easily carried over his shoulder by even a 14-year old boy. One remarkable thing about this spray is that it requires exceedingly little pumping—by far the



least pumping of any hand spray of equal capacity. The pumping of about 15 strokes on the plunger will discharge the entire contents under high and constant power.

There is a big variety of both hand and power sizes now offered to the public—such as Barrel Sprayers, Double Cylinder Pumps, Tank Sprayers, Traction Power Sprayers and Gasoline Power Sprayers. For full particulars address E. C. Brown Co., 65 Jay St., Rochester, N. Y.

### GRAND OPPORTUNITY

All readers interested in White Leghorns should drop a line to Le Roy Sands, Hawley, Pa., Prop. of Sand's Leghorn Farm, who has built up a strain of Leghorns that are noted for their great egg production, and ask for prices on breeding stock. The birds Mr. Sands has for disposal have done duty in his breeding pens the past season and a few of them would make a grand foundation for a laying strain. He also has some early hatched cockerels that will do you a world of good in improving constitutional vigor and egg production. Why not order enough to head next season's breeding pens? When writing it will be appreciated if you will mention A. P. W.

## Quality Buff Rocks

### EGGS AND FOWLS

W. J. Wiberley, Peekskill, N. Y.

### Bean's Columbian Rocks Win

I can furnish your requirements in exhibition birds or breeding stock at prices that will astonish you. Write for descriptive circular.

F. G. BEAN, COLLEGEVILLE, PENNA.

### 1913 Palace Champion Barred Rocks

The "Best Of All" prizes, *Best Display* was awarded to *Canavan's Barred Rocks* in the best class of the variety ever exhibited at the Palace N. Y. Show. Stock for sale.

P. CANAVAN, PHILMONT, N. Y.

W. J. Caines, Box 64, Richmond, Va.

SPECIALTY JUDGE

All varieties of CORNISH and GAMES.

Correspondence Solicited.

### AMERICAN REDS

and

### WHITE HOUDANS

Get a start and be among the pioneers with these great birds. Write for circular to

L. D. Baerman, Box W, Dunellen, N. J.

### S. C. WHITE LEGHORNS

Sunnyside S. C. White Leghorns are my hobby. I have bred them for years on free farm range from carefully selected matings until today they stand second to none in standard qualities and egg production. Let me tell you about them or better still let me fit you out with a select pen. Some choice breeders both male and female at reasonable prices.

ONCE You Try Sunnyside Leghorns, NO OTHERS SATISFY  
G. L. WHEELER, Box W., PENN YAN, N. Y.

### A MILLION HENS USE

WELLCOME'S FAMOUS



TRAP  
NEST

Shows Which Hen Laid The Egg.

New Principle 100 Per Cent. Efficient

F. O. Wellcome, Box W, Yarmouth, Me.

Write NOW for prices and proof.

## CANDEE INCUBATORS

### AUTOMATIC-RELIABLE

Built in sections.

1,200 to 20,400 capacity.

Coal burning, hot water.

Used from coast to coast

For Custom Hatching and  
Baby Chicks.

Holds even heat.

Hatches stronger chicks.

Write for Free Catalogue

Candee Incubator & Brooder Co.

Dept. 3 EASTWOOD, N. Y.



# EVERYBODY'S COLUMN

## PRODUCING LARGE EGGS

Editor American Poultry World:

Would you allow a new comer to say a word about "weighing eggs?"

It seems that every effort is being made to increase the number of eggs laid, but I have seldom seen anything said about the size of the egg. Occasionally we read that the large egg produces stronger chicks, and we are advised to select the larger eggs for hatching for that reason. I am interested in producing a mammoth egg strain of fowls, for I think 150 eggs per year, weighing  $2\frac{1}{4}$  lbs. to the doz., is worth more than 250 eggs per year weighing  $1\frac{1}{2}$  lbs. per doz., by actual weight. I find that this is about the average with my own White Plymouth Rock stock, and some other small breeds which I have tested out. I think, however, my average will exceed 150 eggs per year, with a weight of 36 oz. per doz.

I am aware that for ordinary marketing purposes the large egg producers loose out against numbers. However, in vitality and producing strong chicks the large eggs are 25 to 30 per cent. better by actual test.

I believe too, that the time is coming when we will sell our eggs by the pound for eating purposes, then the large egg strains will be the winners against all comers, as they are now, for hatching and home consumption.

I have one White Rock hen that has won a place in the class of phenomenal layers. She was exhibited at the show of the Muskegoe Poultry Association, Dec., 1912, and won fourth place in the pullet class, at the time I exhibited an egg which she laid measuring  $6\frac{1}{2}$  by  $7\frac{3}{4}$  inches. She has since laid an average of 12 eggs per month for ten months of the year, and her eggs have averaged  $2\frac{3}{4}$  oz. each. The largest egg laid by this hen, was laid April 10, 1914, which measures  $6\frac{1}{2}$  inches by 8 inches and weighed when first laid exactly 4 oz.

I would be glad to hear from others who are interested in larger eggs. W. A. Shamp, Okla.

## FINE RECORD

Editor American Poultry World:

I thought somebody might be interested in the egg record which 5 of my R. C. White Orpingtons made in 12 weeks.

They laid 311 eggs from the 1st of March till May 24th. I think this is a very good record for pullets.

As I am a subscriber to your paper I would thank you very much if you would advertise it in the "Everybody's Column". I would like to hear from others too. I think your paper is excellent for all poultry raisers. F. R. Kessler, Pa.

\* \* \* Properly constructed poultry houses are essential to success. Learn how to build them by purchasing a copy, "Poultry Houses and Fixtures." Fifty cents post paid \* \* \*

## 2,000 WHITE LEGHORN PULLETS

Chas. D. Cleveland, prop. of Sunnybrook Farm, Eatontown, N. J., in his advertising in this issue, is offering 2,000 S. C. White Leghorn pullets. These are divided into three classes as follows: First, those guaranteed to lay in September. Second, those guaranteed to lay in October. Third, those guaranteed to lay in November. This is really a new proposition for the purchasers of laying stock and should prove worthy of investigation. As the money in market eggs is during the fall and early winter these guaranteed layers should be snapped up like hot cakes. For full particulars and prices address as above and mention A. P. W.

## SALE OF WHITE LEGHORNS

All readers interested in the S. C. White Leghorns should turn to the advertising of Bella Vista Farms Co., West Kimmiswick, Mo., and carefully note their announcement. They are offering 3,000 head of pullets, yearling and two year old hens, at \$1.00 and \$1.25 each. As there is said to be a shortage of early hatched chicks this presents a grand opportunity for all who desire to take advantage of it to fill in with stock and insure the winter egg supply. Better write today and be sure. Mention A. P. W.

## IVES' LANGSHANS "A GOOD STRAIN OF A GOOD BREED"

Consistent winners at the largest shows for many years. Elegant big COCKERELS NOW at very reasonable prices.

PAUL B. IVES, "Bonnycroft" GUILFORD, CONN.

## SINGLE and ROSE COMB REDS

Eggs for hatching or day old chicks from an established strain with an established record. Write to-day for circular.

RED POULTRY YARDS, Box W, BETHELEM, PA.

## Silver Penciled Wyandottes

For Choice Stock Write

HOARCE HAVEMEYER, STAMFORD, CONN.

**UTILITY** the watchword of Galen Farms' breeding operations for years. The result is Gibson Strain White Leghorns' Barred Rocks and R. I. Reds—practical, profitable birds, Chicks, eggs and breeding stock for sale. Write for Catalogue.

GALEN FARMS, Drawer D, CLYDE, N. Y.

## One Gallon of Oil to a Hatch

Send for FREE X-Ray Book No. 61. Tells how to save 75c to \$1.25 every hatch—and get more chicks. X-RAY INCUBATOR CO., Des Moines, Iowa

## FAIR VIEW WHITE ROCKS

Prominent winners east and west. Great summer sale now on. Write today.

GUY DAILY, Box G, JEFFERSONVILLE, IND

Myer's Madison Square Garden, New York, Philadelphia and Hagerstown Winning Line of **BARRED PLYMOUTH ROCKS**

Breeding Stock and Eggs for sale. Ask for Catalog C. N. MYERS, Box B, HANOVER, PA

## WHITE WYANDOTTES

Stock and Eggs for sale. Silver Cup for Best Display, Rochester, N. Y., December 15-20-1913. Write for prices and mating list.

THOMAS C. GORDON.

BROCKPORT, N. Y.

**Holmwood's Columbian Rocks** AN ESTABLISHED STRAIN of healthy, vigorous, prize winning birds, raised on *free range*. Our latest winnings—Buffalo, Jan. 1914 of 1st, 3rd and special hen; 1st and special cockerel; 1st pen; 2nd pullet special for Best Display is proof of quality—if more is wanted visit our yards, seeing is believing. No stock for sale—A limited number of Eggs at \$3 per 15.

MASON H. HOLMWOOD,

ORCHARD PARK, N. Y.

## BUFF WYANDOTTES

YOUNG STOCK FOR SALE  
UTILITY AND FANCY

We won A. P. A. Grand Prize Medal for Best in American class at last New York, Palace Show, THEODORE S. HEWKE, MIDDLETOWN, N. Y.

## S. C.—THE CRIMSON STRAIN—R. I. REDS

"Watch the Sunlight, glitten on those Crimson backs." The strain with quality, vigor and vitality. The strain that *pays its way and wins its way*. Look up my record this season at New York State Fair, Albany, Syracuse and Rochester, N. Y. Shows, then if you want quality in Reds—Stock or Eggs for Hatching, write

CHINA HANCHETT.

Box W,

Yards at Greenway, VERONA, N. Y.

**SILVER CAMPINES** Winners at the Greater Buffalo Show, 1913—Allentown, Pa., Fair Show winning futurity stake and Philadelphia winning in strongest class shown 2nd cockerel. Booking orders from champion matings, \$10.00. Special matings \$5.00.

W. C. D. FRANTZ,

Box W,

NEFF'S, PA

## KLINGBEIL PARTRIDGE ROCKS

The Great FANCY and UTILITY Strain.

Winners at New York, Boston, Providence and other leading shows. Bred in line for greatest value. Baby Chicks. Some fine breeding Pens and Cockerels for sale. I can please you. Write for mating list.

PLEASANT VIEW FRUIT AND POULTRY FARM.

WALPOLE, MASS.

Paul Klingbeil, Prop., Secretary and Treasurer Partridge Plymouth Rock Club.

## Morgan's Black Langshans and Rose Comb White Leghorns

Exhibition and utility stock for sale. Write for my free price list.

Morgan Bros.,

Dept. 4,

W. Alexander, Pa

## ABERNETHY'S HOUDANS BRED FOR QUALITY NOT QUANTITY

Winners of 1st Hen, 1st Pen at the Great Boston Show, Jan. 1914. We breed our winners and sell eggs from our best. Write your wants. Eggs half price for June. Special Sale of Breeders.

JAS. ABERNETHY,

Box W,

WEST PEMBROKE, ME.

## TOMPKINS' RHODE ISLAND REDS

Whether you contemplate buying Tompkins' Reds or not you want a copy of my new catalogue. I am not bragging about it but I believe it comes nearer being a real Rhode Island Red catalogue than anything I have seen yet.

LESTER TOMPKINS,

Tompkins' Rhode Island Reds,

CONCORD, MASS.

## PRUYN'S SILVER WYANDOTTES

WIN First Pen, First Cockerel, Special Best Silver Wyandotte Male, Fifth Hen at Grand Central Palace. Four Firsts, Four Seconds, Three Thirds, Two Fourths and Seven Specials at Yonkers. Send for mating list. Have some choice cockerels to spare.

JOHN W. PRUYN,

Gray Oaks,

YONKERS, N. Y

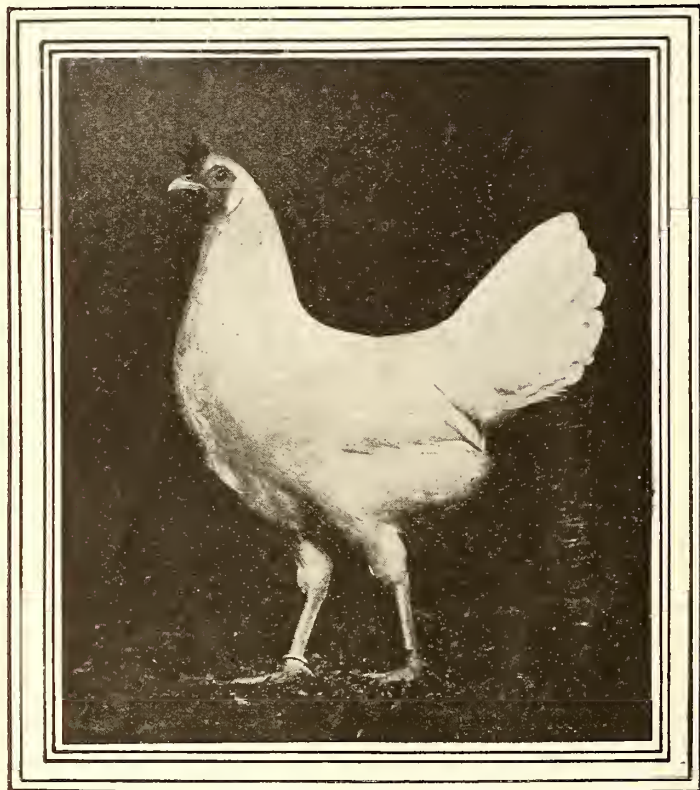


## NATIONAL EGG LAYING CONTEST

**REPORT FOR MAY SHOWS ENGLISH WHITE LEGHORNS STILL IN LEAD. TOTAL OF 20,418 EGGS LAID DURING MONTH. FOR FIRST SIX MONTHS OF CONTEST ALL HENS, GOOD AND BAD, AVERAGED 87 EGGS EACH**

The hens reached the high water mark in May, laying 20,418 eggs during the month, or an average of about 20 eggs per hen. The grand total for six months is 90,149 eggs or an average of 87 eggs for good and bad. In other words, the pure bred hens in this contest, coming from all parts of the world, have averaged 15 eggs more in six months than the average farm hen lays in a year. The highest pen average has been made

No. 02, owned by Tom Barron, another was a Barred Plymouth Rock, No. 592, owned by B. F. W. Thorpe of Ohio. The third was a S. C. White Leghorn, No. 1009, owned by Linfield Poultry Farm from New Zealand. Each laid 31 eggs in 31 consecutive days. The Barred Rocks made quite an increase in production in May, so did both the S. C. and R. C. Black Minorcas. Other varieties also did well and in fact practically



**PRINCESS FROST WHITE**

This pullet made a wonderful record at Indianapolis, 1914, by winning first prize, special for best female in class; special for best pullet in class; special for best shaped female; special for best colored female; special for best head points. She was exhibited by The Willows Farm, South Bend, Ind., and with many other good ones is now in their breeding yards.

by the S. C. White Leghorns, 133 eggs per hen. The highest average made by a single variety, all pens competing, has been made by the Buff Orpingtons, averaging about 100 eggs per hen. The other varieties run from 80 to 100 eggs per hen on the average. The English S. C. White Leghorns again broke the record for May by laying exactly the same number of eggs they laid in March, 257 for the month. Broodiness in the pens from this time on will no doubt cut the yield very materially. In fact dozens of hens are now in broody coops.

Three hens laid every day in May. One was an English White Leghorn,

all those which have been slow to get started are now making up for lost time. A few hens never laid an egg.

The best pen record made thus far by representatives from the various countries is as follows:

S. C. White Leghorns made best English record, 1,330 eggs.

S. C. Reds made best United States record, 1,152 eggs.

S. C. Reds made best Missouri record, 1,152 eggs.

S. C. White Leghorns made best Vancouver Is., record, 980 eggs.

White Wyandottes made best Ontario, Can., record, 949 eggs.

S. C. White Leghorns made best New Zealand record, 942 eggs.

**ROSE COMB BROWN LEGHORNS**  
First Prize Winners at Easton, Allentown, Bethlehem and Nazareth. None better. Some choice cockerels and pullets that can win, very reasonable. Eggs for hatching from pens containing winners \$3 per setting.  
**FEHR & STROHL, R. R. No. 3, EASTON, PA.**

**MAMMOTH BRONZE TURKEYS**  
Also high class Columbian Wyandottes and S. C. Buff Leghorns; Indian Runner and Rouen Ducks. Write your wants to

**A. G. BARLOW, Box W, MEDINA, N. Y.**  
**ANDERSON'S R. C. RHODE ISLAND REDS**  
Again win at Central Palace Show and Greater Philadelphia, six regular prizes besides shape and color specials. A grand lot of youngsters to dispose of that will improve your flock at right prices.

**ANNESLEY M. ANDERSON, Box W. MORTON, PA.**  
**HOWLAND'S BUFF WYANDOTTES**  
Win at Madison Square Garden, 1911-12-13. Eggs from 4 choicest pens \$5.00 per 15 eggs. Satisfaction guaranteed

**STUART A. HOWLAND, GRANVILLE, N. Y.**

**WHAT EVER YOU NEED IN REDS**  
**ADDRESS**  
**C. E. RILEY, 749 Fillmore Ave. BUFFALO, N. Y.**

**S. C. Brown Leghorns**  
Our strain is famous the country over for the splendid size, handsome color and shape, and wonderful winning qualities, at such important shows as—Madison Square Garden, Chicago, Kansas City and many others; defeating all Eastern breeders. Send for free Illustrated Circular "Twenty-Eight Years With S. C. Brown Leghorn".

**Williams Bros. & Brace, Fullerton, Calif**

**Smith's Single Comb Black Minorcas**  
My wonderful record of all 5 first prizes in a quality class at Boston, Jan. 12-17, 1914 proves conclusively that I have the quality flock of America. Better prepare for next season by securing some of this winning blood—Several choice cockerels for sale. Send for descriptive catalogue.

**Wm. A. Smith, Box 536-W Metuchen, N. J.**

**KEELER'S WHITE WYANDOTTES**  
**The World's Greatest Strain**  
Bargain prices on breeders during July and August. Special Sales List describing these Bargains. It's Free.

**Chas. V. Keeler, R. F. D. No. 17, Winamac, Ind.**

**THE COAST LINE TO MACKINAC**  
DETROIT, CLEVELAND, BUFFALO, NIAGARA FALLS. TOLEDO, PT. HURON, ALPENA, ST. IGNACE.

**YOUR VACATION TRIP**  
THE only enjoyable and economical outing is on the Great Lakes. All important ports reached regularly by the D. & C. Line palatial steamers.

Daily service between Detroit and Cleveland, and Detroit and Buffalo. Day trips between Detroit and Cleveland during July and August. Four trips weekly from Toledo and Detroit to Mackinac Island and way ports. Special Steamer Cleveland to Mackinac Island two trips weekly, June 25th to September 10th, no stops enroute except Detroit every trip. Daily service between Toledo and Put-in-Bay June 10 to Sept. 10.

Railroad tickets accepted for transportation on D. & C. Line steamers between Detroit and Buffalo, or Detroit and Cleveland either direction.

Send two-cent stamp for illustrated pamphlet, giving detailed description of various trips. Address L. G. Lewis, Genl. Passenger Agent, Detroit, Mich.

**Detroit & Cleveland Navigation Company**  
Philip H. McMillan, President.  
A. A. Schantz, Vice-Pres. and Genl. Manager.



S. C. White Leghorns made best British Columbia record, 904 eggs.  
S. C. White Leghorns made best Australian record, 844 eggs.  
S. C. White Leghorns made best South African record, 797 eggs.

In the contest just closed in New Zealand, the leading pen of six pullets averaged 278 eggs each. We have some birds in this contest from some of the New Zealand winning pens. They were not larger than fryers when they arrived here and of course have had no chance yet to show what they will really do in this country. In New Zealand and Australia they do not use trapnests, as I understand it, and it is only the pen record that they get. If a pen averages 278 eggs, there must be several hens in the pen which laid near 300 eggs and perhaps more than that. I really believe we can avoid the excitement and handling and get a few more eggs from pens where they are not trapnested. But you cannot determine the good and bad individuals without the trap nest.

The varieties in this contest rank as below, and the best pen record made by each pen of ten hens for the first six months is as follows:

Pen 0, Foreign S. C. White Leghorns, England, 1,330 eggs.  
Pen 47, S. C. R. I. Reds, Missouri, 1,152 eggs.  
Pen 79, American S. C. White Leghorns, Pa., 1,084 eggs.  
Pen 18, White Wyandottes, Pennsylvania, 1,089 eggs.

Pen 53, Barred Plymouth Rocks, Illinois, 1,062 eggs.  
Pen 38, White Orpingtons, Pennsylvania, 1,054 eggs.  
Pen 51, White Plymouth Rocks, Arkansas, 1,031 eggs.  
Pen 5, Anconas, Missouri, 1,028 eggs.  
Pen 4, S. C. Buff Orpingtons, Michigan, 1,025 eggs.  
Pen 32, Buff Orpingtons, Missouri, 1,014 eggs.  
Pen 45, R. C. Reds, Missouri, 1,011 eggs.  
Pen 13, Campines, New Jersey, 959 eggs.  
Pen 48, S. C. Black Minorcas, Missouri, 950 eggs.  
Pen 23, Silver Wyandottes, Missouri, 948 eggs.  
Pen 55, Buff Plymouth Rocks, Pennsylvania, 936 eggs.  
Pen 22, Buff Wyandottes, Missouri, 935 eggs.  
Pen 35, Black Langshans, Missouri, 900 eggs.  
Pen 37, Black Orpingtons, Missouri, 891 eggs.  
Pen 14, Rhinelanders, California, 865 eggs.  
Pen 42, R. C. Black Minorcas, Missouri, 715 eggs.

#### BUY NOW

Maplewood Poultry Yards, Attica, N. Y., have 500 S. C. White Leghorn breeders they are offering at bargain prices. If you want to purchase a few of these birds for next season's breeding pen you better hurry as we are advised by Mgr. Hayner that inquiries are coming in rapidly and that he expects every bird to be cleaned out before August 1.

#### THIRTY EGGS THREE DOLLARS

Thirty eggs for three dollars sounds like a bargain does it not? Well it's just what Aug. D. Arnold, Dillsburg, Pa., is offering in Golden and Silver Campines and White Faverolles, and judging from the interest shown in these varieties it is a genuine bargain and one that should not be overlooked. Mr. Arnold is also offering yearling birds at low prices and will be glad to hear from any reader of A. P. W., who desires to purchase either stock or eggs.

#### THE CRIMSON STRAIN

In a recent letter, China Hanchett, Verona, Greenway, N. Y., reports a very successful hatching season. He says: "I have about 1000 chicks out up to four pounds each and many of them look very promising for the early shows. I have also several breeders, females, for sale at \$2.00 each".

Chicks weighing four pounds each at this time should be in prime condition for the early shows and we do not doubt but that Mr. Hanchett will have a heavy demand for this class of stock.

#### GENESEE COOPS

Secretaries and associations that have not as yet made arrangements for cooping their coming show should get into communication at once with the Genesee Cooping Co., Rochester, N. Y. Some of the largest shows in the country were cooped by this concern last season and the press in each instance made very flattering comment on the fine appearance of the shows. For full particulars address as above and mention A. P. W.

\*\*\* You can not afford to subscribe for our magazines before consulting our Clubbing Catalogue—it saves you money—Send today for copy, it's free \*\*\*

# Poultry Houses and Fixtures

SEVENTH EDITION. REVISED AND ENLARGED. DOWN-TO-DATE

## STANDARD WORK ON POULTRY HOUSE CONSTRUCTION

James E. Rice, Professor of Poultry Husbandry, Cornell University, Ithaca, N. Y., states: "'Poultry Houses and Fixtures' is the best work yet written on the subject. I shall recommend it to our students as a text book on the subject of poultry houses."

### COMPLETE PLANS FOR PRACTICAL BUILDINGS AND EQUIPMENT

#### PARTIAL CONTENTS OF THE BOOK:

**Building a Poultry House:** Facts to be Considered by the Poultryman Before Construction. The Influences of Location, Soil and Climate. Full Details of Construction.

**Closed Front Houses:** A Five-Pen Laying House. House for Laying Hens. Poultry House with Hallway. Double Poultry House. House for City Lot. Cheap House for Small Flock. Continuous Brooding and Laying House. Bills of Materials and Interior Equipment for these Houses.

**Scratching Shed Houses:** Poultry House and Scratching Shed. House for Southern Breeders. Scratching Shed Colony House. Roosting Room and Scratching Shed. A Tennessee Poultry House. Maine Experiment Station Curtain Front House. Maryland Curtain Front House. Cloth Filled Frames in Place of Glass Windows.

**Open-Front Fresh-Air Poultry Houses:** Tolman 20th Century Fresh-Air House. California Poultry House. Fresh-Air House for Cold Climate. Open-Front House for City Lot.

**Portable Poultry Houses:** Sled Runner Colony House. Type of Movable House Used in England.

**Exterior Fixtures:** Portable Coop at Low Cost. A Good Roost Coop. Piano Box Weaning Coop. Shed for Weaned Chicks. Dry Goods Box Coop. Brood Coops. Crate for Shipping Day-Old Chicks.

**Interior Fixtures:** Successful Automatic Feeder. Coops for Breaking Up Broody Hens. Nest Boxes. Practical Feeding Troughs. Grit Box. Safety Trough for Chicks. Drinking Fountain for Chicks. Government White Wash, Etc.

#### THIS BOOK CONTAINS OVER 150 ILLUSTRATIONS

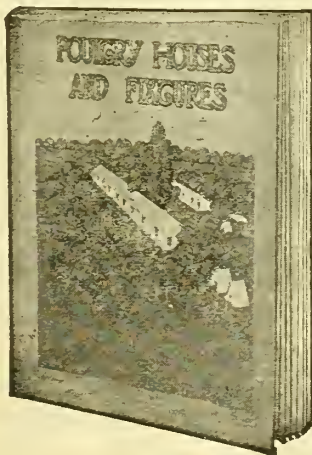
Unquestionably the most instructive and comprehensive work on the construction of poultry houses and appliances that has been compiled to date. Every house and fixture described in this book is in use on the plant of a successful poultryman; is simple, labor-saving and reasonable in cost.

**PRICE 50 CENTS, POSTPAID**

Or 75 cents including a year's subscription to American Poultry World, or will be sent free for two annual subscriptions to American Poultry World at 50 cents each.

American Poultry Publishing Company,

Buffalo, N. Y., U. S. A.





# POULTRY WORLD AFFAIRS

The following amendment to the Massachusetts Cold Storage law becomes effective June 20th. It reads as follows:

"Section 1. Whenever eggs that have been in cold storage are sold at wholesale or retail, or offered or exposed for sale, the basket, box or other container in which the eggs are placed shall be marked plainly and conspicuously with the words "cold storage eggs", or there shall be attached to such container a placard or sign having on it the said words. If the eggs that have been in cold storage are sold at retail or offered or exposed for sale without a container, or placed upon a counter or else-

lots are being received in the New York markets. The Review says, "The first consignments which arrived three weeks ago showed excellent quality, and large size. When repacked in American cases they brought about as high prices as the best of the western receipts".

—O—

New York egg receipts for the week ending June 16, show an increase over the same period last year of over 20,000 cases. Receipts since January 1st, show an increase of 183,625 cases over the corresponding period last year.

—O—

Advance copies of the premium list of the Panama-Pacific Live Stock and Poultry show are ready. In the poultry department no entry fee will be charged, but a nominal charge is made for coop rent, feed and handling. The premiums in both the single and pen classes are very liberal.

—O—

The farm prices for eggs, according to government statistics on May 1st, were 16.8c a dozen or about .7 of a cent higher on an average for the country than on May 1st, 1913. The prices of chickens showed a relative gain.

—O—

Enthusiastic breeders of Gibsonsburg, Ohio, and vicinity have organized a poultry association and will hold a show Nov. 24-27 inclusive. The membership is 210, and all are working to make it one of the leaders in the "Buckeye State". L. C. Taylor is president, and L. C. Hover the Secretary.

—O—

An egg laying contest to be known as the Panama-Pacific will begin on November 1, 1914, and continue for one year. It will be a part of the poultry display of the Exposition at San Francisco, and will be conducted

## ACME WHITE WYANDOTTES

Are bred for merit. Sold on honor. They win; they lay. Trap-nest used 365 days in the year. A trial convinces.

J. HARRY WOLSIEFFER, R.F.D. No. 5, VINELAND, N.J.



## COLORED BANDS

All colors, all sizes, Big Black figures on white back ground. Samples 2c. stamp.

A. P. Spiller, Dept. B, Beverly, Mass

**Let Me Start You In The Poultry Business** My "PEERLESS 60" is a revolution in incubators, first practical, all metal, fire-proof, everlasting 60-egg machine ever known. Perfect heating system. For large or small poultry raisers. Delivered anywhere \$6. Write for details. **H. M. SHEER CO., 115 Hampshire St., Quincy, Ill.**

**J. W. ANDREWS**  
America's Greatest Winning Strain Of  
**WHITE WYANDOTTES**  
Eggs 1/2 price. Book show birds now. Send Stamp for 24 Page Catalog.  
**DIGHTON, Box W, MASSACHUSETTS**

**Mapleglen Farms S. C. Reds** (Tompkins and Scranton Strain)  
The World's Best. Our Matings are the strongest in Our History. Eggs \$1.00 per 15, \$5.00 per 100.  
**J. S. BERGH, JACKSON CORNERS, N. Y.**

**Authorities Pronounce**  
**Jacobus -- JA - CO' - BUS**  
**Campines -- KAM' - PEENS**  
**JACOBUS CAMPINES - O.K.**

**DEMING'S**  
**Single Comb R. I. Reds**  
Win at Madison Square Garden, December, 1913, First Pullet and Color Special, Sixth Pen. Breeders for sale. Eggs for hatching. Free Circular.

**H. P. Deming, Robertsville, Conn.**

**SILVER WYANDOTTES**  
There is Money In Silvers  
The Steinmesch Strain, known the World Over.  
**EGGS FOR HATCHING**  
\$5.00 for 15 - - \$8.00 for 30.  
Circular Free. Address  
**HENRY STEINMESCH, ST. LOUIS, MO.**

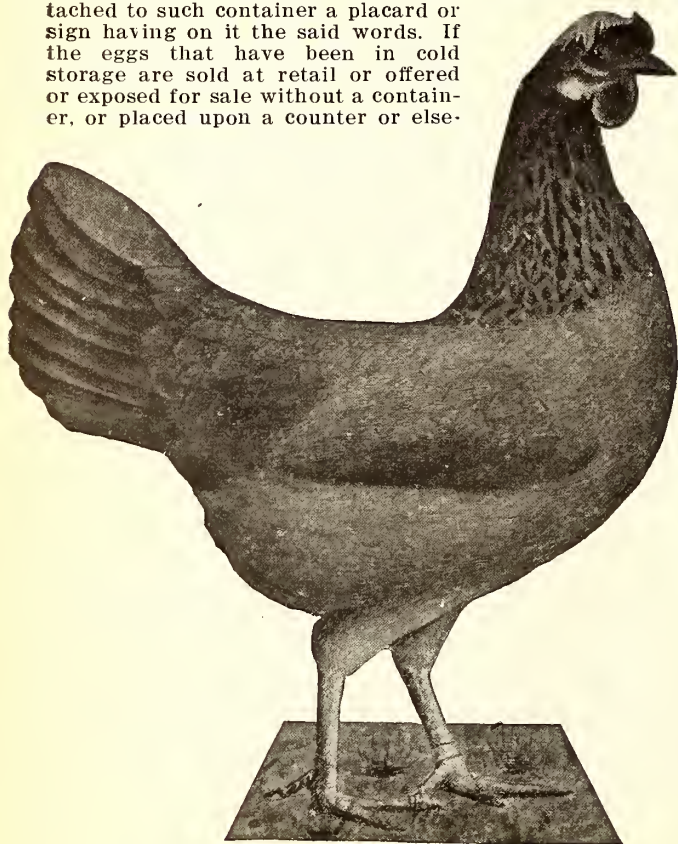
See "The **BUCKEYE**"  
Over 325,000 in use. Send for Catalogue and dealer's name where you can see one and how it works.  
The Buckeye Incubator Co.  
527 Euclid Avenue Springfield, Ohio  
**SOLD AS LOW AS \$10.00**

**TAFT WHITE ORPINGTONS**  
[Imported]  
Win at Hagerstown and Greater Buffalo. Stock and Eggs for sale. Catalogue Free.  
Taft Orpington Farm, Collins, N.Y.

**Congdon's Barred Rocks**  
**Bred for Utility and Beauty**  
Write your wants in Cocks, Cockerels, Hens, or Pullets. \$2,000 invested, 20 years' experience. **INCUBATOR EGGS, \$5.00 per 100, \$40.00 per 1,000.**

**NEW BOOKLET FREE**

**W. A. CONGDON,**  
**Box 404, WATERMAN, ILL.**



**S. C. BROWN LEGHORN**

That Turtle Point Farm, Saratoga Springs, N. Y., produces quality in the six varieties of Leghorns that they specialize in, viz., S. C. White, S. C. Brown, R. C. White, R. C. Brown, S. C. Black and Silver, is proven by their record at such shows as New York, Boston and Chicago. The above illustration portrays the type of S. C. Brown Leghorn females found in the breeding pens. They issue an interesting catalogue that is sent free upon application.

where, a sign or placard, having words "cold storage" plainly and conspicuously marked upon it, shall be displayed in, upon, or immediately above the said eggs; the intent of this act being that cold storage eggs sold or offered or exposed for sale shall be designated in such a manner that the purchaser will know that they are cold storage eggs. The display of the words "cold storage eggs", as required by this act, shall be in letter not less than one inch in height and shall be done in such a manner as is approved by the State Board of Health".

—O—

According to the New York Produce Review, Danish eggs in small



under the supervision of the Poultry Division of the College of Agriculture of the University of California.

L. H. Bonfoey has resigned as manager of Bonnie Brook Farms, Saratoga Springs, N. Y.

The West Haven Poultry Association, New Haven, Conn., at a recent meeting of its members decided to disband.

Chicago has provided an interesting program for members and friends attending the coming convention of the American Poultry Association.

A recent ruling by the U. S. Department of Agriculture is to the effect that all Chinese eggs hereafter offered for sale shall be branded "Product of China".

C. M. Wilcox, a graduate of the Oregon State Agriculture College, has accepted a position as manager of the poultry plant at the Oregon State Asylum, Salem, Oregon.

A breeder of Buttercups is advertising Buttercup Bantams. If they become as popular as their larger namesake they should be quite numerous at the coming shows.

Poultry Ideas, published at Louisville, Ky., has been consolidated with the Industrious Hen, Knoxville, Tenn., and in the future will be published under the name of the latter.

The Steamship Baltic arriving at New York from Liverpool on May 30, brought across two setting hens, each with fourteen eggs. The variety, or results of the hatch were not stated.

Several poultry exhibitions have already taken place in England. Many of the agricultural fairs in connection with which poultry shows are held, take place in the latter part of May.

According to the government crop reports of June 1st, this should be a banner year for agriculturists and allied industries. The cereal crops are the largest and most promising in years.

George Beouy, Cedarvale, Kansas, the "capon king", suffered a stroke of paralysis May 20th. Although of a serious nature it is not thought that Mr. Beouy will be deprived of any of his faculties.

George M. Conant is now in charge of White Birch Poultry Farm, Bridgewater, Mass. This concern is well known as breeders of R. C. & S. C. Rhode Island Reds, Pekin, Rouen and Runner Ducks and Embden Geese.

In addition to the liberal prize money and over \$40 in cash to which Columbian Wyandottes are eligible at the New York State Fair, D. Lin-

coln Orr offers \$5 for best display and \$3 for second best display, provided there are 50 or more birds on exhibition.

Both the New York State and the Allentown Fair officials promise to make the poultry exhibitions held in connection with their coming events the greatest in the history of the respective organizations. Both are noted for the way they do things.

On February 8, 1791, William Jayne, England, was granted letters patent, for preserving eggs and Jayne's egg pickle—lime, salt, cream of tarter and water. Thus we learn that egg preserving is quite ancient, and not the product of modern poultry keeping.

Among the officers of the National S. C. White Leghorn Club for the ensuing year are two well known New York State breeders, Glen L. Wheeler, Penn Yan, N. Y., and Jas. O. Moore of Moore Bros., Moscow, N. Y., vice-president and election commissioner respectively.

From some of the notices published in regard to the poultry department at the New York State Fair, many people appear to have gained the impression that the entry fees have been increased. That is not so. The fee remains the same as last year viz. single birds \$.50, pens \$1.00.

Like its predecessors, the Buff Rock quarterly for May, is full of interesting matter and helpful suggestions for breeders of this popular variety. The officers of this club appear to be working for the welfare and advancement of the variety and not their own pecuniary interest.

Those English White Wyandottes owned by Tom Barron are setting a merry pace in the Storrs Egg Laying contest. At the end of the first six

months they were 131 eggs in advance of the next contestant. It begins to look as if little Island on the other side of the pond would again claim high honors.

The "Audlem Fowl", one of the latest creations of the English fancier, is to be exhibited at New York this winter by J. R. Smith, Cheshire, England. This fowl is about the size of the Leghorn, is said to be of cobby build, and a non-setter. In color they resemble in a degree the Buttercup, have yellow legs and skin and it

**R. C. Black Minorcas Exclusively**  
WINNERS at all leading shows in America. Have won more 1st and 2nd at Madison Square Garden than any other exhibitor or breeder. Show and breeding stock for sale. Mention A. P. W. T. A. McKITTRICK, Hudson, N. Y.

**GREEN BONE** for Hens. Best and cheapest egg making food. Cut it with improved Standard Bone Cutter. Handles bones in all conditions, cuts across the grain. 12 sizes, hand and power. Send for Catalog. STANDARD BONE CUTTER CO., MILFORD, MASS.  
**Engagements Booked Now For**  
Fall Fairs and Winter Poultry Shows *all classes.*  
Legalized Expert Poultry Judge.  
LLOYD M. HALLENBECK, GREENDALE, N. Y.  
Originator of Buff Brahmas.

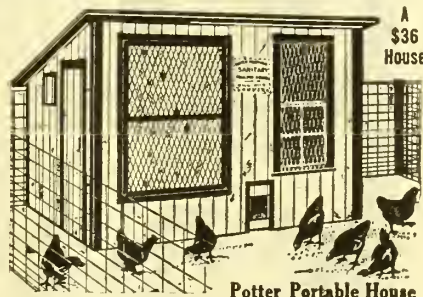
**"Slades" Imperial Pekin, and Fawn and White Indian Runner Ducks**  
Blue ribbon winners wherever shown. Eggs \$2.00—\$10.00 per 100. Satisfaction guaranteed.  
JOHN SLADE, MALVERN, PA.

**Ondawa Farm S. C. WHITE LEGHORNS**  
Win prizes and Lay eggs. Eggs and Chicks from high class pedigree birds bred from trapezoid hens at reasonable prices. Choice stock always for sale.  
L. T. McLEAN, Ondawa Farm, Box 60, SHUSHAN, N. Y.

**The Best Oat Sprouter on the Market**  
\$6 All Metal. No Lamps.  
B. Monroe Posten, Pottstown, Pa.

**FIFTH ANNUAL POULTRY SHOW**  
— of the —  
**Flemington Fair and Carnival Assoc.,**  
FLEMINGTON, N. J.  
AUGUST 4, 5, 6, 7 and 8, 1914  
For premium list address  
D. C. R. Hoff, Supt., Neshauc Sta., N. J.

**LLENROC REDS - GREAT SUMMER SALE**  
We must sacrifice a large number of breeders to make room for our 800 hen hatched chicks. \$30 trios \$15 - \$50 pens \$25. Individual birds, cocks, cockerels; hens and pullets at half price. Eventually "Llenroc Reds" Why not now. All stock farm raised. Write today.  
HOUCK & ALT, 87 Fuller St., BUFFALO, N. Y.



**Potter Portable House**  
No. 5, style "D" 8x10 ft. Potter portable open front, fresh air, scratch shed house, equipped with No. 17, style "A" 5 ft. 3-perch complete henhouse outfit for 30 hens. Price of complete house, \$36. Painted 2 coats.

**DON'T KILL** or sell your laying hens. Potteryze your flock. Pick out the layers from the loafers and diseased hens. Save feed money. Over 50,000 satisfied poultry keepers have our Potter System Book, "Don't Kill The Laying Hen." You cannot afford to be without our 100 page book. Send for circulars.

**DON'T BUILD** you can buy better, cheaper, more complete, ready-made (factory made) hen houses, roosting and nesting features, coops, hoppers, etc. from Potter & Co. We buy No. 1 high grade cypress lumber in car loads, cut and fit all parts perfectly in our big factory and deliver the complete house, coop or fixtures you need in convenient sections all ready to set up.

**Potter Poultry Houses and Fixtures**  
PORTABLE, SANITARY, INEXPENSIVE

Have been sold over 10 years, are used and recommended by thousands who want the best and buy the best in poultry houses and equipment. You start right when you buy a Potter Portable with complete outfit of roosts, dropboards and nests. You save money too. A clean sanitary hen house means healthy hens and lots of eggs.

OUR BIG CATALOGUE contains 112 pages and over 150 illustrations showing Potter Portable houses, coops, henhouse outfits, feed hoppers, brooders, hovers, etc., in fact, everything for the poultry keeper. You need Potter made, high grade goods. Send 2 red stamps to cover postage on our large catalogue and circulars on the Potter System Book.

POTTER & CO., Box E-16, DOWNERS GROVE, ILL.



is claimed that they possess wonderful utility qualities. Look out. The English are good salesmen.

—0—

The Fourth International Egg Laying Contest held at Storrs Agricultural College, Storrs, Conn., will open on November 1, 1914. A few changes have been made in the rules and regulations, the most important of which is a reduction of the entry fee. The number of birds will remain the same.

—0—

According to "Poultry", England, fresh eggs were selling on May 11th, at Rhodesto, S. A., for 4s 6p. or approximately \$1.08 per doz. This causes us to wonder if the storage interests have invaded the King's domain, or if the prices are the result of natural causes, viz. a shortage of the product.

—0—

A Poultry Field meeting will be held at the Massachusetts Agricultural College at Amherst, Mass., from July 22 to 24. Over 500 persons visited this gathering last year. A fine program has been arranged and many of the best known poultry investigators in America are included in the list of speakers.

—0—

The annual year book of the National S. C. White Leghorn Club is an interesting piece of club literature and shows that the club is in a healthy and prosperous condition. The list of officers for the ensuing year is a good one and should result in added prestige and prosperity for "American Business Hen".

—0—

Early reports of the preparations for the second annual Greater Buffalo Show to be held Thanksgiving week makes this exhibition look like one of the most prominent events of the show season. The Palace, New York and the Coliseum, Chicago shows are also working to make their exhibitions excel their past efforts.

—0—

J. J. Jackson, Kingsway, Edmonds, B. C., imported from England this spring 60 White Wyandotte and White Leghorn Eggs and reports a hatch of 29 chicks which must be considered somewhat remarkable, when it is taken into consideration that the eggs traveled more than 6000 miles over land and sea.

—0—

A Miss Stanton of Gravel Hill, Stroud, England, who is said to have been among the first to import Butercups into England, has recently imported from Soudan a variety of Dervish poultry. From an English correspondent we learn that these new arrivals belong to the Bantam class and are very unique in appearance.

—0—

Tom Barron's White Wyandottes keep out in front at Storrs much the same as his Leghorns do at Mountain Grove. The Wyandottes have 1,278 eggs to their credit and one member of the pen has laid 157 eggs since the opening of the contest. His pen

of Leghorns in the Missouri contest are credited with 1,330 eggs during the same period.

#### YOUR VACATION TRIP

Readers in the eastern section of the United States who contemplate attending the A. P. A. Convention at Chicago, or who are planning on a little recreation trip this summer should write the Detroit and Cleveland Navigation Co., L. G. Lewis, Gen. Passenger Agent, Detroit, Mich., for particulars regarding the lake route from Buffalo or Cleveland to Chicago and other lake ports. Those who contemplate a trip west can stop off at Buffalo and go from there to Detroit by boat, as railroad tickets are accepted for transportation between these points. By so doing the monotony of rail travel is broken and you get away from the dirt and dust that always accompanies a railroad trip. Better send for pamphlet today and mention AMERICAN POULTRY WORLD when writing.

#### TAFT'S CATALOGUE

Jno. R. Taft, Prop. Taft's Orpington Farm, Collins, N. Y., has a very interesting little catalogue that is not only full of facts regarding his White Orpingtons, but also contains a sufficient quantity of humor to hold the reader's attention until every word is read. Jno. R., not only writes an interesting catalogue, but he also breeds high class White Orpingtons as well. Send for a copy of the catalogue and learn more about them.

#### SLADE'S DUCKS

Jno. Slade, Malvern, Pa., specialty breeder of Pekin and Indian Runner Ducks, is in position to supply choice stock for either exhibition or breeding purposes at reasonable prices. Mr. Slade also has a fine crop of youngsters of both varieties and can fit you out for the early shows with either old or young stock. He will be pleased to hear from all A. P. W. readers interested in waterfowl. Better write him today.

#### IMPERIAL COLUMBIAN ROCKS

Winners at Madison Square, Albany, New York State Fair, 1913 shows. 14—Breeding pens. Day Old Chicks. 1914—Mating list now ready.

A. A. WHYLAND, Box 82, CHATHAM, N. Y.

#### Pratt's Boston Winners

White Rocks - White Wyandottes  
Winners at Madison Square Garden, Boston and the Great  
Brockton Fair. Large, vigorous cockerels for sale. I  
guarantee satisfaction or no sale. Send for mating list.  
C. W. PRATT, NORTH ABINGTON, MASS.

#### S. C. RHODE ISLAND REDS

We have the birds to help strengthen your flock.

For prices and descriptions write

GEO. W. WHITE, HAMILTON, MD.

#### LICE?

The lice question is quickly settled if you dust your fowls with

#### Conkey's Lice Powder

It's safe, quick and sure.

Saves your poultry profits because it

#### Kills the Lice

#### Doesn't Harm Chicks

Price 25 cents, 50 cents and \$1.00.

For the mites that hide in the cracks by day and prey on chickens at night, spray your poultry house with

#### Conkey's Lice Liquid

Cleans them out thoroughly. Quart 35

cents, half gallon 60 cents, gallon \$1.00.

For the deadly head louse use

#### CONKEY'S HEAD LICE OINTMENT

Effective and doesn't harm chicks. 10 and 25 cents. Money back if these preparations do not satisfy.

• The G. E. Conkey Co., Cleveland, Ohio

Ask For  
Conkey's  
Free Poultry Book



\* \* \* The good points of all varieties of Leghorns are described in our latest breed book "The Leghorns." Procure a copy by sending us one dollar \* \* \*

#### TILTON'S DEEP WINE REDS

That have type, brilliancy and lustre. At Rockingham a clean sweep—1st and 2nd Cockerel, 1st and 2nd Hen, 1st Pullet and 1st Pen. Cup for highest scoring Cockerel, Rose and Single competing. At Weymouth 1st and 2nd Pen and highest scoring pair in American class. I have bred the blue ribbon winner at Boston, at Maine State show, at Memphis, Nashville, Rockingham, New York, Brockton Fair 6 times, at Chicago, at many other smaller shows, which places my Reds second to none in shape and color. They will breed more show birds to the 100 than any other strain. I especially invite those who have been disappointed either in stock or eggs to give me a try. I have scores of satisfied customers which is proof that they make good. Stock and Eggs for sale.

A. F. TILTON, S. C. R. I. Red Specialist.

ROCKLAND, MASS



#### Prices Slashed for July and August Hatches of Pure-Bred Day-Old Chicks

It costs us much less to hatch in summer and we give every Pittsfield customer the benefit of this big saving. Remember, Pittsfield strain holds the world's record for early maturing and egg production. Pittsfield Day-Old Chicks hatched this and next month will be sure winter layers. Here's your chance to get hardy, pure-bred stock at bargain prices.

#### Pittsfield Barred and White Rocks

for July and August hatches priced as follows: \$13.00 for 100 chicks, \$7.00 for 50 chicks; \$4.00 for 25 chicks. Reserve your order now. Say which kind you want, how many and about when you'll want them. We notify you before shipping.

Special prices for 8-weeks-old chicks from July 1st to September 1st Cockerels 40c each. Pullets 90c each. Guaranteed selection. Attractive prices for 4-weeks-old chicks "as they run." \$10.00 for 25 chicks; \$18.00 for 50 chicks; \$35.00 for 100 chicks.

We are now in a position to fill a limited number of orders for Pittsfield S. C. White Leghorns and S. C. Rhode Island Reds. Write for free booklet, "MONEY MAKING FOULTRY."

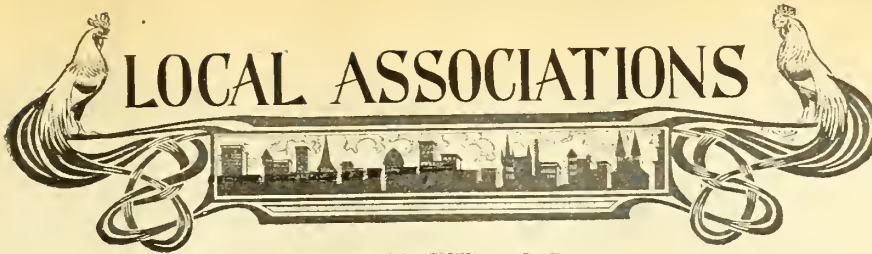
PITTSFIELD POULTRY FARMS CO.

276 Main St.

Pittsfield, Me.

#### PITTSFIELD DAY-OLD CHICKS





Conducted by William C. Denny

**THE GREATER BUFFALO POULTRY SHOW**

The Greater Buffalo Poultry Show to be held Thanksgiving Week, November 23-28, will be one of the prominent events to mark the opening of the poultry show season of 1914-15. The exhibition will again be held in the spacious Broadway Auditorium that was pronounced by prominent poultrymen attending last year's successful show to be one of the best adapted and largest buildings in the country in which poultry shows are held.

The 1913-14 show was a splendid success. The exhibits ranked high both in quality and number, while the list of exhibitors included prominent poultrymen from every direction of the compass, proving that there is a demand for a first class show in this section of the country. Exhibitors living in the central western states, New England, the states bordering on the Mason and Dixon line, as well as those living in Canada can send exhibits and conveniently attend the Greater Buffalo Poultry Show at a comparatively small expense. It is said that a night's journey could bring more exhibitors of Standard-bred poultry to the Greater Buffalo Poultry Show than any other

amounting to over \$1,500.00, another sold over \$500 worth of birds during show week. The list of judges includes some of the best known and most able men in the country as follows: Geo. H. Burgott, Chas. D. Cleveland, J. H. Drevenstedt, W. C. Ellison, Jas. Glasgow, F. D. Maunder, Chas. Mc-Clave, Wm. McNeil, Dick Oke, A. O. Schilling, H. P. Schwab, Jas. Tucker, Geo. W. Webb. Others are being corresponded with and additions will be announced later.

A number of specialty clubs have already decided to hold annual and state meetings during show week and others are giving the matter consideration. In addition to liberal regular prizes a large list of specials will be offered for exhibitors. Poultrymen are urged to get ready for the Greater Buffalo Poultry Show, "The Great Selling Show". Information will be furnished on application to the Secretary, Wm. C. Denny, Buffalo, N. Y.

**FOREST CITY FAIR POULTRY SHOW**

The second annual Forest City Poultry show will be held August 20 to 27, 1914, at North Randall, Ohio, suburb of Cleveland, America's Sixth City. The management is so encouraged by the support given them by the fanciers at

**DARROW'S WHITE ROCKS**

Will put you among the winners. Order eggs now—\$3.00 per 15. Stock for sale.

E. B. DARROW, Box W, WILLIAMSPORT, PA.

**\$7.55 For World's Champion 140 Egg Incubator**

Brooder \$4.85—Both \$11.50. Freight paid E. of Rockies. Write for book, "Hatching Facts" or send price now to Belle City Incubator Co., Box 117, Racine, Wis.

Jim Rohan Pres. Huston's "Ideal" Barred Plymouth Rocks are proving their ability to win at Poultry Shows all over this broad land. Look up their new records made this year at Hagerstown, Md., Allentown, Pa., Williamsport, Pa., and Harrisburg, Pa. I can sell you breeding cockerels at \$3 to \$10, females at \$2 to \$5. Write me.

JAMES T. HUSTON, Box L, WILLIAMSPORT, PA.

**READ OUR GUARANTEE**

Save work, feed and expense, also keep your chickens free from lice all the year round. Send for free catalog containing full information regarding our complete line of poultry accessories. It's free for the asking. Address, SIMPLEX SUPPLY HOUSE, Pontiac Bldg., CHICAGO, ILL.

**NORRIS S. C. BROWN LEGHORNS**

Birds of Quality. First prize winners at Rochester, N. Y., Allentown, Easton and Lebanon, Pa., and Morristown, N. J. Stock for sale. Now booking egg orders. Chas. J. Norris, Sub Station, Phillipsburg, N. J.

**BUFF WY BOOK**

How to Breed Good Ones. Three Sewell Illustrations. Getting solid color. For 25 cents by mail.

DR. N. W. SANBORN, 424 South Rd., HOLDEN, MASS.

**THE MARK OF POULTRY QUALITY**

The Tywacana Farm Indian Head signifies hardy, vigorous bird of great laying ability.

**TY-WAC-A-NA**

White Leghorns, Barred and White Plymouth Rocks have years of utility breeding back of them. They are large, beautiful, thrifty and profitable birds.

Write for catalogue. Tywacana Poultry Farms Co., Box 60, Farmingdale, L. I., N. Y.



Goose growing can be made profitable on any farm where there is a small stream or pond of water and a liberal area for pasture for foraging. Where such conditions prevail a flock of geese requires but little attention from Spring until Fall. The above illustration of a flock of Embden geese shows ideal surroundings for profitable goose growing; with like conditions the outlay for food during the open weather of Spring, Summer and Fall is practically nothing.

show center in America. Here then is the logical place for breeders of the east and west, of the north and south to battle for supremacy.

Thanksgiving Week has been selected as a permanent date for Greater Buffalo Poultry Show. This date does not conflict with any other large poultry exhibition held in the eastern section of the country. Another point the early dates enable exhibitors to advertise their winnings in the December and January poultry papers, to publish catalogues, mating lists and other advertising matter with their winnings early in the season. The Greater Buffalo Poultry Show is a splendid selling show. The early matured youngsters and the old birds that have come through the moult successfully find ready purchasers who are looking for winners for later exhibitions. In this respect last year's show proved one of the season's best. For example, one exhibitor reported sales

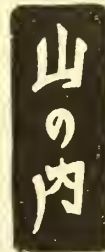
their Inaugural Exhibition last year, that they are planning for even better things this year.

This event opens the season of America's great shows, consequently it will be attended by scores of eager buyers, seeking winners for the shows that are to follow.

Over \$60,000 is being offered in cash premiums at this fair and an unusually liberal proportion thereof is allotted to the poultry show. In addition handsome ribbons will be awarded all prize winners.

Very keen interest is being shown in the Hamburg class owing to the fact that the Ohio Hamburg Fanciers' Club will hold a special meeting in connection with this show and through its Secretary, Ira M. Barber, Sandyville, Ohio, is offering a number of valuable cash specials to be competed for by its members.

Shepard Strong will again have charge of this show, thus insuring fair

**YAMA FARMS**

OUR Summer sale offerings include many of our New York State Fair winners, and the males heading the following pens of our 1914 matings. If you have not already received a copy of this mating list, accurately describing these males, we will mail you one upon request.

**MINORCAS**

Pens 2, 7, 10

**BARRED ROCKS**

Pens 16, 17, 18, 18½, 19

In addition to these males, we have the finest, most uniform lot of males we have ever offered to the public, at summer prices. Every one sold on a money back guarantee. Write for a complete list of the birds we have to offer. Description, show record, and untouched photographs of many of them will be sent to those interested.

**YAMA FARMS,**

Napanoch, N. Y.



and courteous treatment to all exhibitors and proper care of all specimens and safe delivery of same to express companies for return shipment. Intending exhibitors should make note of the fact that each one of the four thousand birds on exhibition last year was returned to its proper destination at the conclusion of the show.

This event will be conducted along the lines of the best winter shows; Spratts Patent will coop and feed the show and a catalog will be published showing the names and addresses of the owners of all exhibits.

Don't forget that entries close August 1.

Write today for premium list to H. J. Kline, General Manager, 1050 Leader-News Bldg., Cleveland, Ohio.

#### THE TRI STATE SHOW

The Tri State Poultry Association of Memphis, Tenn., has increased its premium list this year by several hundred dollars and many silver cups. This show has now more attractive premium lists than any of the southern fairs and as good as the best of the winter shows.

Among the judges selected are Mr. L. A. Stahmer, the famous poultry artist, who will in addition deliver lectures daily that are illustrated with the latest and most wonderful colored slides and stereopticon views. Another judge is Mr. E. C. Branch of Lees Summit, Mo., who pays no attention to the passing fads and fancies, but renders the correct adaption of the Standard. Mr. Branch is on the revision committee of the American Poultry Association.

Memphis at the head of the fertile Mississippi Valley and the gateway to the greatest southwest and south, offers unusual opportunities to the exhibitors who want to exhibit their birds with the greatest reputation for cash sales and where the demand has always exceeded the supply.

Reserve a premium list now by sending your name to Martin F. Schultes, Secretary, Albashire, Bartlett, Tenn.

#### THE FOREST CITY FAIR

Elsewhere in this issue will be found the announcement of the Forest City Fair, the great event held at Cleveland, Ohio, the latter part of August. The poultry show held in connection with the event promises to be even larger than last year when over 4,000 birds were cooped.

No doubt the success of the show is influenced by the liberality of the management in appropriating cash premiums. This year \$3,500 is offered to the exhibitors. This generosity is sure to be rewarded by a large and representative entry from all sections within a radius of one thousand miles of the "Sixth City." Shepard Strong, who handled the poultry department so capably last year, will again be in charge of the poultry, assuring all exhibitors of proper attention and prompt handling of all exhibits.

#### BIG MONEY

Many A. P. W. readers are making big money during their spare time by securing new readers under our very liberal proposition. The work is very attractive and it is comparatively easy to make \$1.00 in an evening after your day's work is done and still not detract from your accustomed pleasures. If you are interested write today for full particulars and if you are in a position to represent us at your county fair or local poultry show we will be glad to reserve them for you on request. For full information address Circulation Manager, American Poultry World, Buffalo, N. Y.

#### HALBACH'S WHITE ROCKS

White Rock breeders should be interested in the announcement of H. W. Halbach, the well known breeder of White Rocks, who is now having a summer sale of breeding stock. For the benefit of prospective purchasers Mr. Halbach has issued a descriptive sales list in which all the good things offered are described. If you are in the market for a few good White Rocks you better send today for a copy of this list.

#### HATCHING EQUIPMENT

The Mammoth Incubator has established a new era in artificial incubation as is demonstrated by the large and successful hatcheries now doing a day old chick business. These machines are now built in sizes from 1,200 eggs upwards and so arranged that additional capacity can be added any time.

The Hall Mammoth Incubator Co., 152 Southern Ave., Little Falls, N. Y., were the pioneers in this direction and they are prepared to supply any reader of this magazine with full particulars in regard to cost, installation, etc. Drop them a line today giving details of your requirements and a complete estimate will be made free of cost.

#### COLUMBIAN ROCKS

Frank G. Bean, Collegeville, Pa., breeder of Columbian Rocks, has a few choice breeders for disposal that should add quality to almost any flock. As will be remembered, Mr. Bean has made nearly a clean sweep at all shows where he has exhibited for the past two seasons. Many of these winners are now for sale and should prove their value as breeders another season. Better write him today.

\*\*\* "The Leghorns" is the title of our newest book. Contains just the information that Leghorn breeders desire. Send one dollar for a copy\*\*\*



### "PITTSBURGH PERFECT" FENCING

NOW MADE OF OUR NEW GENUINE  
**DOUBLE GALVANIZED WIRE**

A newly discovered process of galvanizing, exclusively our own, allows the pure zinc to penetrate into the wire, at the same time leaving a heavy, even layer of zinc on the surface.

The life of our fences is now many times greater than any you have been able to obtain heretofore. The special formula Open Hearth Wire of which "Pittsburgh Perfect" Fences are made is the only wire that will take this double galvanizing, because of its uniform high quality. "Pittsburgh Perfect" Fence today is superior to any other on the market in strength, durability, economy and long life. Ask your dealer for "Pittsburgh Perfect."

Write for new catalogue (sent free). Full of valuable fence information.

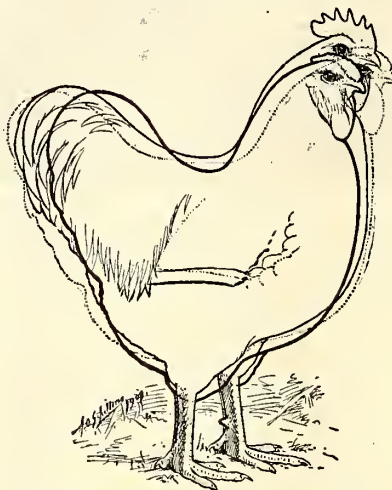
**PITTSBURGH STEEL CO., PITTSBURGH, PA.**  
NEW YORK CHICAGO DULUTH ST. LOUIS MEMPHIS DALLAS

Manufacturers of "Pittsburgh Perfect" Brands of Open Hearth Steel and Wire Products.



## THE PLYMOUTH ROCKS

### BARRED, WHITE, BUFF, SILVER PENCILED PARTRIDGE, COLUMBIAN



A TEXT BOOK of reliable and authoritative information on America's oldest and most popular variety. Explains standard requirements and tells how to select the breeders and mate for best results. A book for the amateur or professional breeder.

Edited by  
**WILLIAM C. DENNY**

Contributed to by such well known breeders as: E. B. Thompson, Victor Bradley, A. C. Smith, A. C. Hawkins, C. H. Latham, W. S. Russell, M. F. Delano, F. W. Briggs, C. H. Welles, J. H. Parks and others.

Profusely illustrated by Franklin L. Sewell, A. O. Schilling and I. W. Burgess. Three full page illustrations

Specimen Illustration, much reduced. of Barred, White and Buff Plymouth Rocks in colors. Besides the many half-tone reproductions of noted winners and plates of feathers taken from living models Artist Schilling has prepared a series of sketches that bring out every point of the Plymouth Rock in detail.

Every breeder of Plymouth Rocks any variety should own a copy of this book.

144 pages 9 x 12 inches, price \$1.00 post paid. With one year's subscription to this Journal \$1.25. With three years subscription \$1.75. Canadian subscribers add 25 cts. per year postage. Send all orders to

**American Poultry World, Buffalo, N. Y.**





#### SHOW SECRETARIES ATTENTION. BUFF WYANDOTTE SPECIALS

The American Buff Wyandotte Club will offer a set of four handsome ribbons, and a handsome silver cup at any show which will print the notice below in their premium lists, and send a copy containing such notice to Club Sec. J. E. Wilmarth, Amityville, N. Y. Orders for the ribbons and cup will be sent to show secretaries upon receipt of such premium list.

#### BUFF WYANDOTTE SPECIALS

The American Buff Wyandotte Club offers to members the following specials at this show:

#### FOUR HANDSOME RIBBONS

One for the best shaped male; one for the best shaped female; one for the best colored male; one for the best colored female.

#### A HANDSOME SILVER CUP

For the best display of Buff Wyandottes by a club member, providing there are at least forty Buff Wyandottes in competition, exhibited by at least three members of the American Buff Wyandotte Club.

These specials will be sent direct to the winners thereof. See that you get your order or that it is sent to the Club Secretary. The Show Secretary will be furnished with the proper order blanks and cards to place on coops of birds winning the specials.

All breeders who are not members should join the American Buff Wyandotte Club so they can compete for the specials. Send one dollar to the Club Secretary, J. E. Wilmarth, Amityville, N. Y., and become a member. Let us tell you how it will pay you to join.

#### AMERICAN BUTTERCUP CLUB

The second annual catalogue of the American Buttercup Club is now ready for mailing and a copy should be in the hands of everyone interested in this popular breed. Members of the club have contributed very freely, with the result that the book is not lacking in interest, but on the other hand is very interesting to anyone who has noted the wonderful progress made during the last few years by this variety.

The club now has a membership of over 500, which is an extremely good showing considering the fact that the organization was only effected a little over two years ago.

The new catalogue consists of 76 pages and cover, and will be sent post paid to anyone interested in this valuable breed, upon receipt of 25 cents. Address all communications to G. A. Williams, Sec., Warwick, N. Y.

#### PENCILED RUNNERS HAVE FULFILLED CONDITIONS

Notice is hereby given to all interested breeders that the Cumberland White Egg Indian Runner Club has filed with the secretary of the American Poultry Association all the required papers for the admission of the Penciled Runner to the American Standard of Perfection in due form. As far as is now known to it, the Cumberland Club is the only group of Runner Breeders to have filed all the required papers.

The magnificent carriage, type and gait in Runners recently shown at New York and other eastern shows by both American and English breeders will forever set at rest the question as to true Runner quality. It is confidently expected that the Runner Ducks will now enter upon the era of progress

and conquest such as has never before been known. With the best egg and the best flesh of any known domestic fowls and with harmony among all who desire the best of the best Runners, their future course should be straight onward and upward continuously. C. S. Valentine, Pres., Mrs. Andrew Brooks, Vice-Pres., Wm. C. Degelman, Sec.

#### RANCOCAS

Breeders of S. C. White Leghorns and White Plymouth Rocks will be especially interested in the advertisement in this issue of Rancocas Poultry Farm, Box 610, Brown's Mills, N. J. In a personal letter, M. L. Chapman, manager of the breeding and exhibition departments, states that they have a large number of birds that have won prizes at the leading shows during the last three years that they are going to sell at bargain prices. These include among the White Leghorns, such males as the bird heading the first pen at Boston, 1913, the male heading first pen at Philadelphia, 1911, first pen male at Madison Square Garden, 1910, second White P. Rock, Boston, cockerel, 1913, the third and fourth prize cockerels at Madison Square Garden, 1913, etc., etc. They are also offering some females

with records equally good, also some 200 yearling and two-year-old hens from the utility farm, which will be sold in lots of 25 at a very low price.

Of the high priced birds, Mr. Chapman says that 98 per cent. of them were bred on the farm, with the exception of the original stock, and that from the present outlook they will have a great number of high quality birds that will win the ribbons during the coming season of 1914-15.

He also states that Reese V. Hicks has been appointed general manager of the International Poultry Sales Company and that this means much to the farm and the general public. When writing for information or printed matter, or when ordering, we shall appreciate it if you will mention A. P. W. Address Rancocas Poultry Farm, Box 610, Brown's Mills, N. J.

#### PARTRIDGE ROCKS

During the last few seasons the Partridge Rocks have grown rapidly in popularity and many fine exhibits have been seen at our leading shows. This is especially true of the last Chicago Coliseum show, where Bird Bros. of Myersdale, Pa., exhibit was one of the features of the show and occasioned much comment from visiting poultrymen and others. Many of these winners together with a host of others are now for sale and readers of this magazine desiring to get a good start in this variety, or to strengthen flocks already in their possession, should write today for their summer prices.

#### BANTAM FANCIERS

All lovers of Bantams, especially fanciers of Buff, Black, White and Partridge Cochins and Black Rose Combs, should look up the advertising of J. M. Session, 28 Market Place, Baltimore, Md. Mr. Session has stock and eggs for sale and will be pleased to hear from all interested readers.

**Send Now  
Big Poultry Book  
FREE**



**Everything  
for Poultry  
Keepers**

A friend and guide for poultry raisers. Tells you just what to do under all circumstances. Helps you over all the difficult places. Insures you the richest success.

244 pages—7½x10 inches—of money-making facts.

### Cyphers Company 1914 Book Poultry Keeping in All Branches

Written by poultry experts. Based on actual experiences on Cyphers \$75,000 Poultry and Demonstration Farm. Send for this book today. Apply its rules, suggestions and discoveries to your poultry business and make this your banner year.

#### See That List of Poultry Supplies?

Cyphers Company 1914 book describes, shows pictures and gives prices on every poultry need. Each article carries Cyphers warranty and is guaranteed to give satisfaction.

Ask us to send with the 1914 book our two valuable books, "Poultry Foods and Feeding" and "Cyphers Company Doctor Book." The Doctor book is new. Informs you instantly the name of any disease and the remedy. Don't wait until your fowls are sick. Be prepared, get this book, save money. We will send all three together *free of charge*. Write today.

#### Cyphers Incubator Co., Dept. 31, Buffalo, N. Y.

New York, N. Y., 41 Barclay St.  
Boston, Mass., 12-14 Canal St.  
Chicago, Ill., 329-331 Plymouth Ct.

Kansas City, Mo., 317-319 Southwest Blvd.  
Oakland, Cal., 2127-2131 Broadway  
London, Eng., 121-123 Finsbury Pavement.

#### List

Incubators  
Brooders  
Hovers  
Chick Shelters  
Brooder Stoves  
Leg Bands  
Caponizing Sets  
Chick Food  
Developing Food  
Growing Mash  
Fattening Mash  
Scratching Food  
Fertile Egg Mash  
Laying Mash  
Short-Cut Alfalfa  
Mealed Alfalfa  
Full-Nest Egg Food  
Nodi Charcoal  
Poultry Remedies  
Napcreol (Disinfectant)  
Anti-Fly Pest  
Egg Preservative  
Fumigating Candles  
Drinking Fountains  
Grit & Shell Boxes  
Food & Water  
Holders  
Pigeon Supplies  
Lice Powder  
Roost Supports  
Roosting Paper  
Spray Pumps  
Powder Guns  
Wire Fencing  
Bone Cutters  
Chick Markers  
Bone Mills  
Root Cutters  
Nest Eggs  
Poultry Books  
Etc., Etc.

**Write  
Today**



## ARTIFICIAL FERTILIZATION OF EGGS

MISSOURI STATE EXPERIMENTAL STATION REPORTS ARTIFICIAL FERTILIZATION OF THE EGG. CLAIMS ALSO TO HAVE SUCCEEDED IN HATCHING SUCH EGGS.

Director Quisenberry of the Missouri State Experimental Station, Mountain Grove, Mo., in his monthly report of the laying contest makes the startling announcement that the artificial fertilization of eggs has been successfully accomplished by investigators at that station.

At first we are liable to accuse the director of "hitting the pipe", but after giving the matter consideration, we have come to the conclusion that he means the artificial impregnation of the hen, and not the artificial fertilization of the egg.

While we believe the first operation comparatively easy of accomplishment, we believe the latter a



A chick at the Missouri State Poultry Experiment Station which was hatched from an egg that was artificially fertilized, artificially incubated, artificially hatched and artificially brooded. The mother of this chick was never allowed to come in contact with a male.

physical impossibility. By the term artificial fertilization of the egg one would naturally suppose that the announcement meant to convey that the eggs from a sterile hen, that is a hen that had not been allowed to come in contact with a male, had been artificially fertilized after they were laid. This is not the case, it is simply a matter of a poor selection of terms in making the announcement.

Why some one has not hit upon this proposition before causes us to wonder, as artificial impregnation is practiced to a greater or lesser extent in other branches of live stock breeding, especially in horse breeding.

The discovery, if it can be so termed, is a valuable one and presents rare opportunities for the experimentalist and investigator and will make possible the crossing of fowls that heretofore has been impossible. It was only recently that a prominent Canadian breeder said to the writer that he would give almost anything to be able to cross a Light Brahma with a Game Bantam. He said he had been trying to devise means for years and had given it up as an impossibility. This announcement from Missouri not only makes it possible but comparatively easy.

In making the announcement Director Quisenberry says:—"We have

been making some experiments along this line and have some living chicks hatched from eggs laid by hens which have never been allowed to run or come in contact with, or be treaded by a male bird. From what experiments have been made, I believe we can collect the semen from the Champion Barred Plymouth Rock male bird at New York, Madison Square Garden, carry it to Missouri and then fertilize eggs from the champion pullet at the Missouri State Show if that pullet is in laying condition. Artificial fertilization of eggs may never be practical, but we learn other things as a result of work of this kind. We have been surprised to learn the length of time the male germs will live out of the body of either the male or female. We have allowed the semen to become perfectly dry, and then after two hours or more moisten it and find hundreds of them still living and moving over the fields under the microscope. Our experience has led us to believe that about 5 per cent. of the males used for breeding purposes are practically sterile, that is, that their germs are so weak that they do not fertilize or else the semen is lacking in male germs. We have living chicks hatch-

ed from eggs artificially fertilized, artificially hatched and artificially brooded. Some interesting facts are being developed with reference to this work and mention will be made of them in later reports."

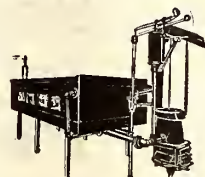
### SUMMER SALE OF BREEDERS

Fernbrook Farm, Arthur C. Bouck, Mgr., Menands Rd., Albany, N. Y., has a change of copy this month in which is announced a great summer sale of breeding stock at one-half the regular prices. In the sale are included White Wyandottes, Pekin and White Indian Runner Ducks from this year's breeding pens. As Fernbrook Farm has been successful at Madison Square Garden, Albany, etc., this sale presents a grand opportunity to secure high grade breeding stock. In sending in change of copy Mr. Bouck reports a very successful season and states that they have the largest and best flock of chicks they ever had. For full particulars regarding this sale address as above and mention A. P. W.

### A. B. C. BUFF LEGHORNS

All lovers of Buff Leghorns should write A. B. Cox, 49 Thurston Rd., Rochester, N. Y., for his summer prices on breeding stock. The A. B. C. strain has long been recognized as well up with the leaders and many winners at leading shows are from, or descendants of, this line. If you will mention A. P. W. when writing it will not only be appreciated by Mr. Cox but by the publishers as well.

\*\*\* Leading magazines in attractive Clubbing Combinations at reduced prices. Consult our Clubbing Catalogue. A postal will bring a copy free \*\*\*



Capacities, 1200 to 20,100 Eggs  
(Sectional Construction)

The Hall Mammoth Incubator hatches stronger chicks and more of them. Everywhere successful poultrymen are giving it special credit for their profits and progress.

Its unequalled results, the success of its users, and the high percentage of re-orders are responsible for its sales being larger than any other mammoth type.

The largest possible hatches of vigorous, healthy chicks are the rule. Some shrewd poultrymen advertise "Hall Hatched Chicks" because it is recognized that they grow into money quickest with the least trouble and expense.

The Hall is the original — it was a success in 1876. It has always kept ahead in achievement. Every improvement of practical value was originated by our engineers and poultry specialists.

About what size can you use? Do you want our useful literature? Write a letter giving details. Ask us to send our SERVICE SPECIALIST to help you get the right equipment and results — no charge — he may be in your section now, or later.

THE HALL MAMMOTH INCUBATOR CO.  
152 Southern Avenue Little Falls, N. Y.





1914

1915

Under this heading, we shall endeavor to publish a complete list of the shows to occur during the season of 1914-15. Secretaries should favor us with dates selected, names of judges, also correct any errors that appear in the dates as published.

**ARIZONA**

PHOENIX, State Show—Dec. 23-26.

**ARKANSAS**

HOT SPRINGS—Nov. 16-21; W. W. Wales, Sec.

**CALIFORNIA**

SACRAMENTO—Nov. 2-7; C. A. Wilkins, Sec.

SANTA CRUZ—Nov. 11-14; E. J. Harlan, Sec.

SAN MATEO—Nov. 12-15; Arthur R. Schroeder, Sec., San Gregorio.

WILLOWS—Nov. 18-21; Otto F. Schuchard, Sec.

OAKLAND—Nov. 24-29; Chas. G. Hinds, Sec.

PASADENA—Dec. 1-5; M. D. Cartright, Sec.

MODESTO—Dec. 2-5; A. D. Roberts, Sec.

SAN FRANCISCO—Dec. 8-13; W. H. Ingrain, Sec.

PORTERSVILLE—Dec. 15-17; E. D. Fawcett, Sec.

LOS ANGELES—Jan. 6-12; H. H. Mumford, Sec.

**CONNECTICUT**

SOUTH NORWALK—Nov. 23-26; Chas. Petty, Sec.

HARTFORD—Dec. 8-11; Warren Hayden, Sec.

**CANADA**

TORONTO—Canadian Industrial Exposition—Aug. 29-Sept. 14; J. O. Orr, Sec.

**ILLINOIS**

CAPRON—Dec. 30-Jan. 4.

**INDIANA**

VINCENNES—Dec. 7-12; E. W. Determan, Sec.

THORNTOWN—Dec. 14-19.

**KANSAS**

FORT SCOTT—Dec. 8-11; C. S. Frantz, Sec.

**KENTUCKY**

LEXINGTON—Jan. 4-9.

**LOUISIANA**

SHREVEPORT—Nov. 4-11; L. N. Brueggerhoff, Sec.

LAKE CHARLES—Nov. 23-28; H. K. Ramsey, Sec.

ALEXANDRIA—Dec. 9-13; W. H. McCrackin, Sec.

**MARYLAND**

HAGERSTOWN—Oct. 13-16; W. F. Spahr, Sec.

BALTIMORE—Jan. 6-10; J. M. Sessions, Sec.

**MICHIGAN**

BATTLE CREEK—Dec. 7-11.

**MINNESOTA**

HAMLINE—"State Fair"—Sept. 7-12; J. C. Simpson, Sec.

**MASSACHUSETTS**

BROCTON—Sept. 29-Oct. 2; F. W. Rogers, Sec.

BEVERLY—Nov. 17-19; Harry McKean, Sec.

HOLYOKE—Dec. 2-4; Geo. Barnett, Sec.

CHELSEA—Dec. 3-5; B. P. Nichols, Sec.

MILFORD—Dec. 9-12; W. H. Pyne, Sec.

SPRINGFIELD—Dec. 15-18; W. C. Roraback, Sec.

NORWOOD—Dec. 16-18; E. D. Baker, Sec.

GLOUCESTER—Dec. 16-18; B. H. Thornberg, Sec.

BOSTON—Jan. 12-16; W. B. Atherton, Sec.

WORCESTER—Jan. 12-23; W. H. Tilton, Sec.

**NEW YORK**

NEW YORK STATE FAIR, Syracuse—Aug. 31-Sept. 5; W. H. Manning, Supt.

ROCHESTER, Industrial Exposition—Sept. 7-12; E. F. Edwards, Sec.

GLOVERSVILLE—Nov. 9-15; A. L. Watson, Sec.

BUFFALO, Greater Buffalo Show—Nov. 23-28; W. C. Denny, Sec.

NEW YORK, Palace Show—Dec. 1-5; L. D. Howell, Sec.

ROCHESTER, Flower City Show—Dec. 7-12; J. W. Chapman, Sec.

BATAVIA—Jan. 11-16, 1915; Lee Folger, Sec.

SCHENECTADY—Jan. 12-16, 1915; H. J. Fuller, Sec.

**NEW JERSEY**

TRENTON—Sept. 28-Oct. 2; M. R. Margerum, Sec.

PATERSON—Nov. 18-21; Walter A. Schultz, Sec.

**NEW HAMPSHIRE**

CONCORD—Dec. 8-11; Herman C. Bailey, Sec.

**POULTRY EXHIBITORS YOUR****ATTENTION, PLEASE!****THE FOREST CITY FAIR****CLEVELAND, OHIO**

Opens the show season August 20-27 inclusive. Poultry premiums \$3,500 covering all classes and slighting no breed. It is worth while to win at the Forest City Fair. The Premium List is ready.

**H. J. KLINE, Gen. Mgr.,**

1050 Leader-News Bldg., CLEVELAND, O.

**New York State Fair, Syracuse, N. Y.****August 31st. to September 5th, 1914****"Better Than Ever"**

Plan to exhibit at the coming exhibition where you will be pleased with the way we do things. The best appointed Poultry Building in America. Empire coops, Capable judges, and honest management. \$5, \$3, \$2 on pens and \$3, \$2 \$1 on singles with a nominal entry fee of \$1.00 on pens and 50 cents for singles. Many hundred dollars in cash specials and elegant silver cups offered by prominent breeders. Entries positively close Aug. 8th. Premium list on application.

**W. H. MANNING, Supt.**

Saratoga Springs, N. Y.

**A. E. BROWN, Sec'y.**

Syracuse, N. Y.

**GREAT ALLENTOWN FAIR****POULTRY SHOW****SEPTEMBER 22, 23, 24, 25, 1914**

NOTED FOR THE WAY IT DOES THINGS AND THE THINGS IT DOES.

**HELD ANNUALLY**—The second last week in September, in connection with the largest and richest Fall Fair in Pennsylvania. Also, the best managed and best conducted poultry show in America, paying out probably more prize money than any other held in buildings with aisles twelve feet wide, guaranteeing light and ventilation practically equal to outdoors for every coop. Originator poultry Ftntrities idea and offering the richest stakes in the world.

**BESIDES THE ABOVE**, annually the largest and best Bantam show in America and a Pigeon show equalled in size and quality by one or two others only.

**SECRETARY - SUPERINTENDENT****HARRY EDELMAN, Pigeon Show.****W. THEO. WITTMAN, Poultry Show****GET  
READY  
FOR****THE GREATER BUFFALO SHOW****THANKSGIVING WEEK 1914  
PREMIUMS PAID IN GOLD**



## PENNSYLVANIA

ALLENTOWN, Great Allentown Fair—Sept. 23-25; W. T. Wittman, Supt.  
 RIDGEWAY—Nov. 17-20; C. O. Romick, Sec.  
 WILLIAMSPORT—Nov. 17-20; Geo. J. Hanks, Sec.  
 MOHNTON—Nov. 26-29; J. H. Fichthus, Sec.  
 BIGLERVILLE—Dec. 1-4; O. C. Rice, Sec.  
 POTTSVILLE—Dec. 8-12; R. O. Umholtz, Sec.  
 McKEESPORT—Dec. 14-19; W. N. Sales, Sec.  
 BERWICK—Dec. 28-Jan. 2; R. S. Hartman, Sec.  
 WARREN—Dec. 28-Jan. 2.  
 SELLERSVILLE—Dec. 30-Jan. 2; E. R. McCork, Sec.  
 JOHNSTOWN—Jan. 12-16; W. S. Krise, Sec.

## SOUTH CAROLINA

CHESTER—Dec. 9-11.

## TEXAS

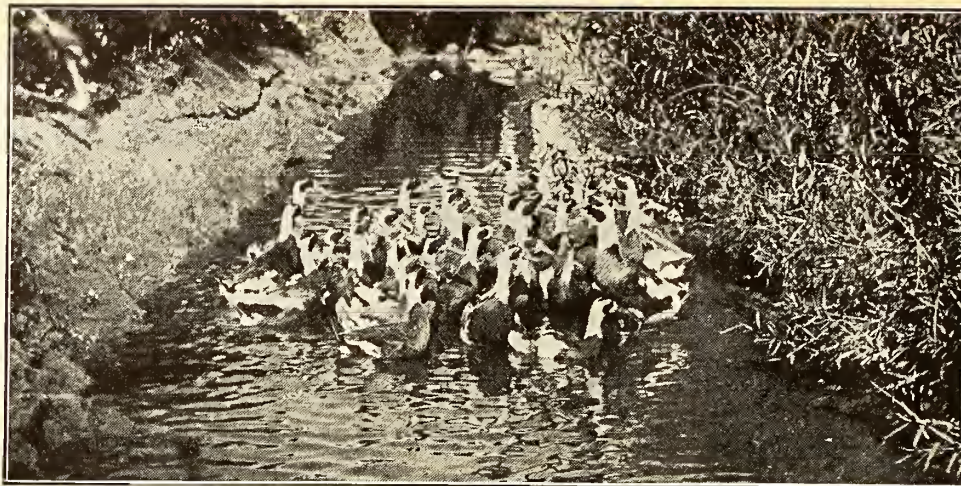
DALLAS, State Fair—Oct. 15-30; Walter Berton, Supt.  
 HONEY GROVE—Nov. 17-19; W. C. Morris, Sec.  
 ARLINGTON—Nov. 17-19; W. J. Pulley, Sec.  
 AUSTIN—Dec. 2-5; Mrs. M. D. Carr, Sec.  
 CLEBURNE—Dec. 8-11. Edw. S. Clayton, Sec.  
 NEW BRAUNFELS—Dec. 10-13; Alex Forks, Sec.  
 ROCKDALE—Dec. 16-19; Mrs. D. H. Sanford, Sec.

## VIRGINIA

RICHMOND—Nov. 24-27.

## WASHINGTON

TACOMA—Dec. 29-Jan. 2; J. A. Caddey, Sec.



A picturesque scene from the farm of Sidney A. Woodcock, Fredonia, N. Y., breeder of English Penciled Indian Runners. Mr. Woodcock is fortunately located on a farm where nature has provided a beautiful little stream whose banks are fringed with a luxuriant vegetation making an ideal place for the culture of water fowl.

## SALE OF CAMPINES

Manhattan Farms, Brighton, N. Y., are offering special inducements in breeding stock in both Golden and Silver Campines. As these farms possess one of the largest flocks of these varieties in the country they are in a position to select just the kind of birds you require for either next year's breeding pens or for exhibition purposes. All readers desiring to secure stock from this well known farm should get into communication with them at once. Write today and mention A. P. W.

## CANDEE INCUBATORS

Now is the time to plan for that new incubator equipment. To save time and labor you should look into the merits of the Mammoth Incubator. Among those in successful use the Candee is giving good results. It is made in sections and any capacity from 1,200 to 20,400 can be obtained. This machine contains several features not found in any other. These and many other points are fully explained in the free catalogue that may be obtained upon application to the Candee Inc. Co., Dept. 3, Eastwood, N. Y.

# TURKEYS—THEIR CARE AND MANAGEMENT

## ALL VARIETIES

### *New Edition, Just Published*

Enlarged and Revised to meet Requirements of 1910-1915 Standard

### 70 ILLUSTRATIONS

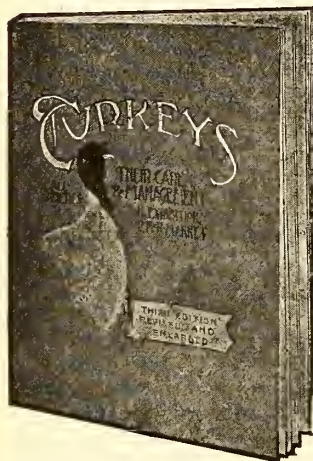
Including Frontispiece of BRONZE TURKEYS IN NATURAL COLORS, charts and drawings by Franklane L. Sewell, the world's greatest Poultry Artist.

How to mate, rear, exhibit and judge Turkeys, explained by the world's best and most experienced breeders, judges and writers.

**PRICE, 75 CENTS, POSTPAID**

**SPECIAL OFFER:**—For \$1.00 we will send the Turkey Book and include one year's subscription to AMERICAN POULTRY WORLD, or we will send the book *FREE* for three one year subscriptions at 50 cents each.

**American Poultry Publishing Co.,** STAFFORD BUILDING, BUFFALO, NEW YORK





# QUESTIONS AND ANSWERS

**EDITORIAL NOTE**—This department will be devoted to answers to questions of general interest on practical poultry topics asked by subscribers and addressed to Editorial Department, AMERICAN POULTRY PUBLISHING COMPANY, Stafford Bldg., Buffalo, N. Y. Answers in this department are free of charge. Where two or more persons ask substantially the same questions, only one answer will be given. In asking questions try to send full information. The subscriber's name and address must be given [not for publication]. If a reply by mail is desired, be sure to enclose stamped addressed envelope.

## ENTERITIS

**Q.** I have about 60 Buff and Black Orpingtons that I kept yarded until two weeks ago (April 20). As there was no grass in the runs I turned them out on the commons, which is pine woods, stumps, dead trees, etc. About a week before turning them out was compelled to feed scratch grain consisting largely of rye. Three days ago I noticed a hen on the roost with her wings drooped and the whole attitude indicated that she had been hurt on the back. I examined her and found her crop partly filled, put her in a coop by herself and next day she was about well. Three more took sick and died and two more sick, but alive. They are droopy and have a greenish discharge from bowels. Can you advise me what to do? J. B. J., Alabama.

**A.** From your description this appears very much like enteritis, and from the fact that you have been feeding rye it becomes very probable. A large amount of smut or ergot is often present in rye and sometimes in other grains. Where grain containing this fungi is fed liberally, it is usually followed with digestive and bowel disorders. Change your rations and omit the rye. Give each bird affected a teaspoonful Epsom salts. This may be dissolved and mixed with the mash. Follow this with a good tonic and feed a light but nourishing diet until all traces of the diarrhea have disappeared.

## FEEDING QUESTIONS

**Q.** Will you give me a formula for a good grain ration? H. M. W., New Jersey.

**A.** Wheat, oats and corn make a reliable grain ration, and the prices at which they can be purchased in your locality should govern the quantity of each to be used. This precaution must be taken, however, not to use corn too freely in hot weather. In cold weather as much as 50 per cent. of the ration can be used.

## WANTS TO KNOW ABOUT GAMES

**Q.** (a) Is there a recognized breed of Black Cuban Games? The Standard does not mention them.

**A.** (a) Not to our knowledge. There may be a strain or variety known as such as it is not uncommon for fanciers of this fowl to create by crossing, a new strain to which they attach a name which they think fits the viciousness of the bird.

**Q.** (b) Have noticed that all game fowl that I have seen are very apt to throw "sports". Is this due to breeding for fighting qualities in the old days and paying no attention to blood?

**A.** (b) From the above question I should judge that the most of the games that you have come in contact with were of the Pit variety as it is very common for the offspring to show various colors, due to the constant crossing to get vigor and grit, no attention being paid to color. This is not true of standard games as they breed as true to color as most other varieties.

**Q.** (c) What is the true definition of Pit games in the show reports? L. A. P., Massachusetts.

**A.** (c) Pit games in the show reports means those classes of games bred for the pit or fighting purposes only.

## HATCHING COLUMBIAN WYANDOTTES

**Q.** Kindly tell me how Columbian Wyandottes must be hatched and also the degree of heat one must have in the incubator and how long it takes till they hatch. J. W. F., New Jersey.

**A.** Columbian Wyandottes are hatched in the same manner as any other variety of chicks. The natural or artificial method may be used. When the latter is used the incubator

## Dr. Hess Poultry PAN-A-CE-A

can be used as a tonic and conditioner. Guaranteed to make poultry healthy—make hens lay—help chicks grow and shorten incubating period. Only costs 1 cent a day for thirty fowl. Sold by reliable dealers everywhere.

**DR. HESS & CLARK, Ashland, Ohio**



## GET OLD TRUSTY BOOK FREE

Started half million people making big poultry profits. ABC of chicken raising, 8 or 4 times as many Old Trusty Incubators in use as any other. Write today.

**JOHNSON INCUBATOR MAN, Clay Center, Nebraska**

## H-O POULTRY FEEDS

for a healthy flock and larger profits. They include: H-O Steam Cooked Chick Feed, Intermediate Scratch, Scratch Food, Poultry Feed, Dry Poultry Mash or Chick Food. Write for sample and prices.

**THE H-O CO., BUFFALO, N. Y.**

**PRATT'S**

### Prevent Lice

They kill chicks, torture hens and reduce profits. Apply **PRATT'S LICE KILLER** (Powdered). It kills lice instantly.

**25c Guaranteed 50c**

Ask your dealer or write

**PRATT FOOD CO.**

Philadelphia 4109 Chicago

**PRATT'S**

## Little Giant Stock Food Tonic

The Phosphorus-Food is all medicine and food. No fillers used. Contains correct amount of phosphorus needed by all live-stock. Composition and analysis on every pack. 5 lb. tin \$1; 10 lb. \$1.50; 25 lb. \$3. If your dealer cannot supply you, write us.

**Little Giant Stock Food Co., Newark, N. J.**

## Look Out

for Chicken Thieves!

Examine your birds and see if lice are not robbing your poultry of health and vitality, and yourself of profits. Get the **Old Reliable**

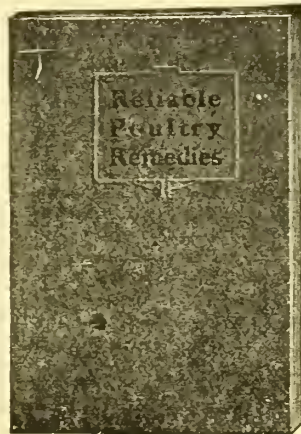
### LAMBERT'S

**DEATH TO LICE POWDER**

(6) It knocks these thieves out quick. Will not injure eggs, hens or chicks, nor soil plumage. Sold in 10c, 25c, 50c and \$1.00 sizes. Latest copy of Lambert's "POCKET BOOK OF POINTERS" for 2c stamp.

**KLEIN-LAMBERT CO., 507 Traders Bldg., Chicago**

# Reliable Poultry Remedies



64 pages, 6 x 9

## How to PREVENT and CURE DISEASE

A Poultryman's Hand Book of Tried and Proved Remedies for the Diseases of Poultry. It describes in simple language the symptoms of the various diseases and tells what remedies will give best results under different conditions.

The Chapters are: Requisites for Health; Head, Throat and Lungs; Intestines and Crop; The Abdomen; Legs and Feet; The Skin; Parasites; Objectionable Habits. Send for complete list of our publications.

**Price, 25 Cents, Postpaid**

60 Cents, including a Year's Subscription to  
*American Poultry World.*

**American Poultry Publishing Co.**

158 Pearl Street, Buffalo, N. Y.



should be run according to directions supplied by the manufacturer and the heat maintained at 103 degrees. All chicks should be out by the end of the 21st day.

### FEEDING QUESTIONS

Q. (a) Will you kindly answer the following questions through the columns of AMERICAN POULTRY WORLD? I expect to keep about 50 fowls and am not sure how I should feed. Would you advise feeding a mixture of grain in the morning and a wet mash at noon and a mixture of grain in the evening?

A. A light feed of grain in deep litter in the morning is advisable, but as I am not an advocate of the wet mash I cannot O. K. the noon feeding. At evening a full feed of the mixed grains should be given.

In place of the wet mash install some dry food hoppers and try the dry mash method. If you must feed at noon throw in what table scraps you have, also such vegetable waste as potato parings, cabbage leaves, etc.

Q. (b) Would you advise having a cabbage hung up in the chicken house for green stuff, also feeding ground bone twice a week, would that be sufficient?

A. Cabbage is very good when not fed to liberally, green cut bone twice a week would do very well although three times would be better. This

procedure will hardly be necessary, that is during the summer, unless your birds are closely confined.

### CHICKS DYING

Q. Can you give me a reason for the high death rate among my chicks? They appear all right until about a week or ten days old then they start to get weak and loose all control of themselves until death. I am using portable hovers and keep the heat at 90 degrees, but in the morning the litter is damp. I feed them buttermilk for drink and chick feed, grit, charcoal and bonemeal, but no matter what I do it does no good. They do not seem to have any disease, just get sick and die. I use alfalfa meal, cut straw and O. K. litter in the brooders and in the morning it is so damp it all sticks together. A Reader, Kentucky.

A. Usually in cases of this kind there is some diarrhea and I am inclined to think that there may be some here and it has escaped notice. If not there is but one of two things to which I can attribute the trouble, either weak and diseased breeding stock or your methods of brooding are at fault. The condition of the litter would indicate bowel trouble, or a poorly ventilated hover. Perhaps you close it up to tightly at night. Try giving more ventilation, don't be afraid of fresh air, it won't hurt them. Put about an inch of

sand on the floor under the hover and cover with a little litter. Perhaps these chicks are constipated and their cases has become so aggravated that it has caused inflammation of the intestines, examine their droppings and if too hard give a physic. A teaspoonful of Epsom salts dissolved in water, to 25 chicks, and mixed with the mash is about the right quantity.

### VERTIGO OR CONGESTION OF THE BRAIN

Q. I have a pullet one year old, that twists her head around, she eats well also drinks, but when she drinks seems as though her head twists more than ever. Other than this she is apparently all right. She has been this way for about two weeks. Does not go on the roost and once in a while will keel over and can-

## FRENCH'S POULTRY MUSTARD

*The Original Poultry Mustard*

Don't accept counterfeits. Write for booklet to The R. T. French Company, Dept. B, Rochester, N. Y.

**\$8.50**

Buys 150 Egg Incubator and 150 Chick Metal Brooder  
An astonishing offer. Why pay more? Quality guaranteed—satisfaction assured or money returned. Write for details, Rockford Incubator Co., Box 12, Rockford, Ill.

**"Tycos" Incubator Thermometers**  
are accurate and dependable. Don't risk eggs in an incubator or chicks in a brooder until you have put "TYCOS" Thermometers on guard. Insist that your new machine be equipped with "TYCOS". Price, 75c each at your dealer or from us. Write today for booklet, "Incubator Thermometer Facts Worth Knowing", Free.  
**Taylor Instrument Companies** Rochester, N. Y.

## Don't Feed Green Food!

Do away with the bother by using **Succulenta Tablets**

They are better and cheaper and more relished by all fowl. Simply dissolve one tablet in one quart drinking water for fowl. Sample can (100 large tablets) by mail 50c. Can of 250 large tablets by mail \$1.00. **YOUR MONEY BACK IF NOT SATISFIED.** Drop postal for particulars to The Succulenta Co., P. O. Box 405-17, Newark, N. J.

**KILL RATS & MICE**  
SCIENTIFICALLY  
with **Pasteur Laboratories Rat Virus**  
NOT A POISON  
HARMLESS TO POULTRY, DOMESTIC ANIMALS & MAN  
**PASTEUR LABORATORIES OF AMERICA**  
NEW YORK 366 WHIST. CHICAGO 4435 DEARBORN ST.

DEPT. G

## YOURS FOR THE ASKING

Choke skepticism; send dime (postage) for either 50c or \$1.00 bottle of "OCULUM".

Unless it knocks **White Diarrhea, Cholera, Roup, Blackhead, Sorehead, or Gapes**, we want no pay.

"OCULUM" does it that's all—Yes, we mean it.

Proof from any state free.

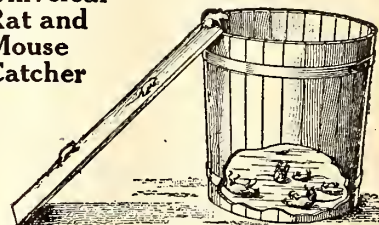
Successful Poultry Journal, Chicago, says:—"Nothing which has been given to poultrymen in recent years has met the reception accorded to 'OCULUM'. It is surely a wonderful remedy and belongs to that class of articles which revolutionize things."

H. I. CO.,

Box Q,

SALEM, VA.

### Universal Rat and Mouse Catcher



Cleans a building of Rats and Mice in a short time, and keeps it cleaned, for it is always ready for use. Made of galvanized iron, can't get out of order and lasts a lifetime. A large number can be caught daily. Go to the Catcher mornings, remove device on inside, which only takes a few seconds, take out the dead rats and mice and replace device and it is ready for another catch. A small piece of cheese, is used, doing away with poisons.

The Catcher is 18 inches high and 10 inches in diameter. When Rats pass the device they die and no marks are left on them. The Catcher is always clean. One of these Catchers set in a livery stable in Scranton, Pa., caught over 100 Rats in a month. One will be sent prepaid to any place in the United States upon receipt of \$3. On account of shipping charges being prepaid, remittance is requested with order.

Catcher 8 inches high, for mice only, prepaid for \$1.

H. D. SWARTS, Inventor and Manufacturer, Scranton, Pa.



FIRST PRIZE COCKEREL, MADISON SQUARE GARDEN DEC 26 1913  
AMERICAN POULTRY ASSOCIATION GOLD SPECIAL, BEST BIRD IN SHOW  
BRED AND OWNED BY D. W. YOUNG, MONROE, NEW YORK, U.S.A.

"I have no other breeds" is a phrase familiar to readers of poultry journals and at once brings to mind the beautiful White Leghorns produced by D. W. Young, Monroe, N. Y. For several years Mr. Young has won a majority of the first prizes at Madison Square Garden, the show by which quality in any variety is measured, and the variety is greatly indebted to him for much of the improvement that has been made in this popular and useful fowl. The above illustration shows one of his many Garden winners.



not get up until I take hold of her head and twist it back, then she hops up and seems as smart as ever. What is the matter and is it contagious? Mrs. R. B. S., Maine.

A. Questions similar to the above have occurred so frequently in this column that it seems strange that readers do not recognize this trouble when it appears. The symptoms would indicate vertigo. Vertigo is a nervous condition caused by injury or it may occur as a complication with other diseases. Treatment usually avails but little, therefore, in a majority of cases it is better to kill the bird and end its suffering. If you are inclined to experiment the following treatment recommended by Salmon may be given: 1 to 5 grains of bromide of potassium dissolved in 1 tablespoon of water given 3 times a day.

#### BROODY HENS, ETC.

Q. As a subscriber to your paper I seek the following information in regards to my chickens. (a) What is the best way to break up a broody hen, and how should I feed her?

A. Remove her from the nest at the first indications of broodiness and confine her in a slatted coop, preferably one with a slatted bottom. Coop should set well up from the ground and feed and water should be regularly provided. Feed the same as you do the balance of your flock.

Q. (b) I have a broody hen that to my surprise has eaten most of the eggs I put under her. I did not discover anything wrong until the approach of hatching time when I took her from the nest and found only six eggs. When I put a chick back with her she started to eat that. Do you think she is an egg eater and that it would be safe to put her back with the rest of the flock?

A. (b) Often one will find a setting hen that behaves very badly. These eccentric birds should be marked for identification and never used the second time. In this case I don't believe this hen is an egg eater but I would prefer to use her for a Sunday dinner rather than take any further chances with her.

Q. (c) I have a hen that I bought and she eats her back feathers, right across her saddle. Would you give me a cure for it?

A. (c) Are you quite sure it is the hen? I would suspect the attention of the male in cases of this kind as they are very common at this season. If you are right in your suspicion relief may be obtained by anointing the feathers around the affected area with an ointment, made by mixing a teaspoonful (60 drops) extract of Aloe with a cup of lard.

Q. (d) What is your opinion of Epsom salts given in the drinking water every two weeks to fowls? I have also read of sulphur being given the same way. F. X. C., New York.

A. (d) Epsom salts are very good where they are needed, but where fowls are allowed range they are seldom required. In closely yard-

ed stock where intensive methods are pursued occasional doses are undoubtedly beneficial. I would prefer though to give them in the mash. Sulphur is also beneficial when used properly; this also should be given in the mash as but little benefit would be derived from giving it in the drinking water as it is practically insoluble in water.

#### FATTENING FEED FOR CHICKENS EXPLAINED

In response to a query from Benjamin J. Kirntier of Corbett, as to what and how to feed chickens for fattening, Prof. James Dryden of the poultry department of the Oregon Agricultural College replies:

"There are different rations that can be fed successfully. In some districts corn is the main item, and in others oats, barley, or other grain. The price of grain will govern the ration fed largely.

"There is no better fattening food, probably, than good plump oats fine-ground. Barley, ground up fine, is also good as part of the ration. A good ration would be ground oats, barley and middlings in equal parts and a little bran mixed with butter-milk or sour milk.

"If one cannot get milk it will be necessary to feed some animal meal or beef scrap, or a little blood meal. About ten per cent. of the weight of the grain is the right proportion of blood meal.

"If corn is as cheap as the other grains, I would feed corn liberally. The grain should be mixed with about twice as much milk as of ground grain, so that it will be very soft and drip from the end of the stick. No green food is necessary.

"The chickens should be fed all they will eat twice a day. At first one should begin by feeding light, but after two or three days they should be given all they will eat up, twice a day. Food should not be left standing before them, however.

"The chickens should be confined in a small pen or in fattening crates where they will get no exercise. They will be quieter and do better in a dark pen. The feeding may be done by lamplight at night if that is more convenient."

#### JACOBUS' CAMPINES

M. R. Jacobus, Box 3-W, Ridgefield, N. J., breeder of Golden and Silver Campines, writes that he has a pen of Golden in the Missouri National Egg Laying Contest at Mountain Grove, and that during December, 1913, and January, February and March, 1914, this pen of ten females has laid a total of 627 eggs, weighing 85 pounds and 11.7 ounces. Mr. Jacobus refused to sell his Golden Campines until he had brought his strain up to a standard of egg production that satisfied him. He now has no hesitancy in stating that his Golden are equally as good layers as his Silvers and the Campines are being established more and more firmly in the good graces of the American poultry public. For full information about his birds, prices, etc., address M. R. Jacobus, Box 3-W, Ridgefield, N. J.

\*\*\* "The Orpingtons." All varieties fully described in this complete and attractive book. Seventy-five cents secures a copy \*\*\*

## EGG RECORD

AND

## Account Book



An Easily Kept Record of Profit and Loss

A simple, easy method for keeping correct account by the day, month and year of all expenses and income from eleven yards of fowls; also record of all eggs laid, set, or sold; chicks hatched, reared, sold, etc.; also record of orders as filled.

## How much did you make last year?

This book was prepared to meet the need and demand for an accounting system whereby a breeder can rear poultry more intelligently as to profit and loss, and in its present form embraces the best of the systems employed by our most experienced poultry breeders.

The rapid sale of the several editions of this book and its universal approval by the poultry press and poultrymen is proof that it does the work for which it was designed.

Price, 25 Cents, Postpaid

A full year's subscription to AMERICAN POULTRY WORLD and one Account Book for 60 cents.

American Poultry Publishing Co.

Buffalo, N. Y.



## CLASSIFIED ADS.

**RATES:**—Classified advertisements will be inserted in this department of AMERICAN POULTRY WORLD at 5 cents a word per month for one or two months, or at 4 cents a word per month for three or more months. Change of copy allowed quarterly without extra cost. No order accepted for less than 50 cents for each insertion. Numbers, initials and abbreviations count as words. No display allowed other than initial word or name.

**TERMS:**—Cash with order and copy of advertisement. Positively no exceptions to this rule. Please count the words correctly to avoid delay in publishing. Write copy of your advertisement plainly to insure its appearing correctly. Copy must reach AMERICAN POULTRY WORLD office by 18th of the month preceding date of issue.

AMERICAN POULTRY WORLD is furnished every classified advertiser without charge during the time his advertisement appears in these columns.

We guarantee to publish an average monthly circulation of 45,000 copies during the year ending with April, 1915

"BECOME IDENTIFIED WITH A WINNER."

### ANDALUSIANS

**BLUE ANDALUSIANS:** Bred as a specialty and producing winners at all the shows. I have the best stock in the United States at reasonable prices. Winner of Connecticut State Championship in the Mediterranean class 1912-13. Stock and eggs for sale. E. D. Bird, Greenwich, Conn. 3-9-4

### BANTAMS

**BANTAM SPECIALIST**—Buff, Black, Partridge Cochins, Light and Dark Brahmas. I ship on approval. Circular free. Geo. C. Salmon, Port Dickinson, N. Y. tf

**RARE BARGAINS**—Golden and Silver Sebright, Buff, Black, White and Partridge Cochins, Rose Comb Black, Black Tailed Japanese. Red Pyle and Black Red Game and Single Comb White Leghorn Bantams. Proper & Son, Schenectady, N. Y. 12-7-4

**AMERICA'S BEST COCHIN BANTAMS:** If you wish the best, either show birds, breeders, pet or utility Bantams, be sure and turn to Cover Page 3, and read our ad carefully. Wahebe Bantam Yards. tf

America's best **BUFF COCHIN BANTAMS** are recognized as champions. Winners of highest honors at Madison Square Garden. B. O. Schilling, Brighton Sta., Route No. 1, Rochester, N. Y. 6-8-4

**15 CHOICE GOLDEN SEBRIGHT BANTAM** eggs \$2.00. Choice Cockerels for sale. W. H. Adams, Almond, N. Y. tf

**BLACK COCHIN and LIGHT BRAHMA BANTAM** winners of ribbons, cups and medals at America's largest shows. Choice stock for sale. A. I. Paine, Whitman, Mass. tf

**BUFF COCHIN BANTAMS** of quality. Stock and eggs for sale. Correspondence a pleasure. Satisfaction guaranteed. John H. Ireland, Danbury, Conn. 4-7-4

**BLACK TAILED JAPANESE BANTAMS** for the fall fairs for sale, also Black Leghorn Fowls. Chas. H. Mosher, Johnstown, N. Y. 2-8-4

### BUCKEYES

**WEISBERG BUCKEYES.** Breeders for sale and hundreds of half grown birds at low prices. Write me your wants. Free catalogue. A. H. Weisberg, Nevada, Mo. 3-9-4

### BUTTERCUPS

Trio of fine **BUTTERCUPS.** Closing out. Navarre Poultry Yards, Toledo, Ohio. 1-7-4

**BUTTERCUPS**—Chicks 20 and 30 cents; eggs 2 & 3 dollars per 15. Fred Fenn, R. D. 3, Torrington, Conn. 3-7-4

### CAMPINES

**M. BAYERDORFFER, OAKWOOD HEIGHTS, N. Y.,** offers yearling hens \$2; cocks \$3; trios \$6, and up, as long as they last. Don't wait. Youngsters reasonable. Stock bred to produce record layers. 3-9-4

**JACOBUS GOLDEN AND SILVER CAMPINE** eggs now half price. Original introducer, won more first and second prizes on Campines at Madison Square Garden and Boston than all competitors combined. M. R. Jacobus, Box 276-W, Ridgefield, N. J. 1-7-4

**GOLDEN AND SILVER CAMPINES**—Have broken up breeding pens. Offer at low price limited number of yearling hens. Manhattan Farms, Geo. E. Noth, Owner, Brighton, N. Y. 1-7-4

**GOLDEN CAMPINES**—Cockerels and trios. Imported stock. J. W. Loughlin, Gage, N. Y. 2-3-4

### COCHINS

**COCHINS ALL VARIETIES** as well as Brahmas and Langshans are described in the book "The Asiatics", the only complete treatise on the oldest fowls in existence. A copy will be sent postpaid upon receipt of 50c. cash or stamps to AMERICAN POULTRY WORLD, Buffalo, N. Y. tf

**CLOSING OUT SALE.** White, Black, Buff and Partridge. All must be sold within 60 days at ½ their regular values. Splendid value for shows and breeding. Bargains. D. C. Peoples, Uhrichsville, Ohio. 1-7-4

### DORKINGS

**SILVER GRAY DORKINGS**, exclusively 25 years. The very finest as our own records show, winning more first prizes and specials than all others combined. Will sell 5 males and 30 females, fine ones at reasonable prices. Eggs half price from May 25th. \$2.00 per 13, \$3.00 per 26. Watson Westfall, Sayre, Pa. 2-7-4

### DUCKS

**COOK'S FAWN INDIAN RUNNERS,** America's largest, finest flock. Stock reasonable. Eggs 12-\$2.00; 24-\$3.75; 50-\$6.50; 100-\$12.00; 1,000-\$100.00. Booklet for stamp. Irving E. Cook, Munsville, N. Y. 6-8-4

**PURE WILD MALLARD DUCKS.** Beautiful stock for sale, four dollars per pair, six dollars trio. You will like these birds. Neville Poultry Farm, Kewanee, Ill. 3-9-4

### EXHIBITION GAMES

**FOR SALE**—Two Black Red and three Red Pyle Game cocks. First prize winners. Yearlings. Price reasonable. Write John Doherty, Sr., Sherman St., Attleboro, Mass. 3-8-4

### FAVEROLLES

**MAKE YOUR POULTRY PAY** by starting now with White Faverolles, the coming popular fowl, quick growers, unexcelled for market, wonderful winter layers, very hardy, largest flock in America, can furnish pairs, trios, pens. Most points including grand first pen Madison Square Garden, December 1913. Eggs \$10.00 per 15. Brakendale Farms, Fonthill, Ont., Can. 4-5-4

### HOUDANS

**HOUDANS**—Proprietor all Petersen's, also book 20c. Eggs, stock. Dr. Wight, Bolster's Mills, Me. tf

**HOUDANS**—"Worth While" layers of big White Eggs and lots of them, the great utility chicken. Write me your wants. Dr. G. G. Billman, Sullivan, Ind. tf

### JAVAS

**BLACK JAVAS MOTTLED**—Write American Java Assn., S. W. Morton, Sec., Albany, N. Y., for addresses, leading breeders both varieties. Javas will win for you. 6-8-4

### LANGSHANS

**ROBINSON'S LANGSHANS**, winners New York, Buffalo, Boston and other shows. J. F. Robinson, So. Weymouth, Mass. 3-8-4

### LEGHORNS—BROWN

**SEND YOUR ORDER** today for a copy of "The Leghorns", the most complete treatise on your favorites ever written, three full page illustrations in colors, one showing correct plumage color of male and female Brown Leghorns. 144 pages—price \$1.00 postpaid. AMERICAN POULTRY WORLD, Buffalo, N. Y. tf

**YES I HAVE THEM**, not in the Antediluvian days, but in the 20th Century at Buffalo, Jan. 1913, I won first cockerel and special for the best male, Jan., 1914, 5th cock, first hen, special for best female, first, second, fourth and fifth cockerel and special for best male and first pullet. Write for price list to Rev. J. G. Taylor, 305 Park St., Chatham, Ont., the S. C. Brown Leghorn Specialist. tf

**ROSE COMB BROWN LEGHORNS.** Madison Square winners. Eggs for hatching \$3 and \$5. Laying matings \$1.50-15. Quick shipments. Circular free. H. S. Lamson, Cameron, N. Y., Box "C". tf

### LEGHORNS—S. C. BUFF

Crevoiserat's **SINGLE COMB BUFF LEGHORNS.** Blue ribbon winners at New York, Philadelphia, Boston, Allentown, Hagerstown, etc. Eggs half price—special stock sale. Wm. Crevoiserat, 33 Mill Road, Freeport, N. Y. 3-7-4

**"AMERICAN QUALITY"** Single Comb Buff Leghorns are egg-bred winners. Special sale now. L. M. Munger, DeKalb, Ill. 3-9-4

### LEGHORNS—R. C. BUFF

**ROSE COMB BUFF LEGHORNS.** Catalogue. Howard J. Fiske, Box N, Falconer, N. Y. 6-7-4

**ROSE COMB BUFF LEGHORNS,** Orchard Reared. Blue Ribbon Winners Madison Square Garden 1913; Grand Central Palace, 1913; (Club Meet, Cups and Special), Scranton, etc. Persistent layers; small eaters; frost proof combs; hardy. Eggs, \$5, \$10, \$15. Stock in season. Illustrated folder. William J. Peck, Pittston, Pa. 6-8-4

### LEGHORNS—SILVER

**SILVER LEGHORNS** a specialty. 12 years a breeder of this beautiful variety, circular free. Sylvester Shirley, Pt. Clinton, Ohio. 6-8-4



## LEGHORNS—WHITE

**WHITE LEGHORN** breeders and fanciers should have a copy of "The Leghorns" all varieties, the latest and most complete treatise on this popular fowl. Will give you many valuable pointers on care, feeding and conditioning. 144 pages, profusely illustrated. Three color plates. Postpaid \$1.00. AMERICAN POULTRY WORLD, Buffalo, N. Y.

**S. C. WHITE LEGHORNS** (Young's Strain) won at Pittsburg Exposition 1914, 1st Pen, 2nd Pullet and 5th Cockerel, cup for best pen and special for 2nd best display. Eggs from three grand pens. Satisfaction Guaranteed. Write for prices. Allen A. Iams, Deer Lick, Pa. 6-8-4

**S. C. W. LEGHORNS**—(Egg record pen average 225) two and three year olds that are producing very strong chicks for only \$10.00-100, delivery guaranteed. Eggs for **HATCHING**, \$5.00-100; \$40.00-1,000. Sitting 15 eggs \$1.00. Cockerels 3 for \$5.00 from record hens. Send for **CATALOGUE FREE**. The Underhill Farms, Box W, Fort Ann, N. Y. Order from this ad now. tf 3-9-4

**SINGLE COMB WHITE LEGHORNS**. Good healthy vigorous stock. D. W. Young's Strain. 500 breeders for sale \$1.00 a piece. E. C. Seymour, Suffield, Conn. 3-9-4

Several hundred heavy laying **S. C. WHITE LEGHORN** hens for sale. \$75 each. Early cockerels same price. J. B. Casterline, Hillcrest Farm, Orchard Park, N. Y. 3-9-4

**FOR SALE**—S. C. White Leghorn hens 65 to 75 cents each. Laying, none better. Fine birds. E. F. Snyder, Olean, N. Y. 3-9-4

**S. C. WHITE LEGHORNS** one year old Wyckoff strain. Fine large birds now booking July, August delivery—85 cents. D. J. Tew, Fayetteville, N. Y. 1-7-4

**FOR QUICK SALE** 200 Single Comb White Leghorn breeding hens 85 cents each, 100 for \$80.00. 15 cock birds \$1.00 up. Young's strain. Reduced price for all. Frank Runser, Ada, Ohio. 1-7-4

**JERSEY STRAIN S. C. WHITE LEGHORNS**. Grand yearling hens selected for size, shape and great laying qualities at \$1.00 each. Send for catalogue. North Jersey Poultry Farm, Ramsey, N. J. 3-9-4

**PULLETS FOR SALE**—12 weeks' old S. C. White Leghorns. Also 500 yearling hens. Choice stock of the best laying strains. Satisfaction guaranteed, Harry F. Palmer, Middleport, N. Y. 1-7-4

**TYSON'S PROLIFIC STRAIN S. C. White Leghorns**—Early hatched cockerels \$2 to \$5. Range grown, husky fellows. Guaranteed to please or money back. Bred for vigor, eggs, size. Tyson's Poultry Place, Bradner, Ohio. 1-7-4

**FOR SALE**—300 S. C. White Leghorn yearling hens. Kulp's famous 242 egg strain \$1.00 each for any number. H. A. Bacon, Hillcrest Poultry Farm, Berwyn, Md. 3-9-4

**TO MAKE ROOM** for young stock will sell 125 S. C. White Leghorn hens. (Young's strain) \$.75 to \$1.00 each. Hoffman & Stewart, R. D. 2, Waverly, N. Y. 1-7-4

50 yearling **ROSE COMB WHITE LEGHORN** pullets \$1.25 each. Excellent breeders and layers, 3 winning cocks, bred from New York, Syracuse and Albany winners. Chester Williams, Gloversville, N. Y. 1-7-4

## ORPINGTONS—BLACK

**EVERY BREEDER OF BLACK ORPINGTONS** should read the new Orpington Book. Tells about the Standard requirements, how to mate and breed them for best results, edited by J. H. Drevenstedt. Fully illustrated. Price 75 cents, postpaid. AMERICAN POULTRY WORLD, Buffalo, N. Y. tf

## ORPINGTONS—BUFF

**S. C. BUFFS**, Byers and Willard Strains. Eggs \$2 up per 15. Utility \$5 per hundred. Stock for sale after August 1st. L. Lennon, Purling, N. Y. 3-7-4

## ORPINGTONS—WHITE

**WHITE ORPINGTON** history fully described in the new Orpington Book, the most complete work published on the popular Orpington fowl. Price 75 cents postpaid. AMERICAN POULTRY WORLD, Buffalo, N. Y. tf

**S. C. WHITE ORPINGTONS**, Eggs \$2.50 for 15; Chicks 25c each. Send for mating list. The Cande Farm, Pittsfield, Mass. 6-8-4

**S. C. WHITE ORPINGTONS**—22 ribbons won at last 4 shows. Stock for sale. Eggs 2, 3 and 5 dollars for 15. A. A. Borland, Houston, Pa. 3-7-4

## ORPINGTONS—SEVERAL VARIETIES

**WILLIAM COOK & SONS**, Originators of all the Orpingtons, Box W., Scotch Plains, N. J. For the best Orpingtons, any variety, it is natural you must send to their Originators. Send 10c for Illustrated Catalogue, just out, with history of Orpingtons and hints on poultry keeping. tf

**THE ORIGIN AND HISTORY** of all varieties or Orpingtons, described in the Orpington Book, just published. Every breeder of Orpingtons should have a copy. Price 75 cents. AMERICAN POULTRY WORLD, Buffalo, N. Y. tf

## PET STOCK

**BOOKLET**—Breeding Guinea Pigs 15c. Warren Fluck, East Greenville, Pa. 12-2-5

## PIGEONS

**I OFFER** guaranteed mated **HOMERS** in any quantity at \$1.00 pair, and challenge squab companies or dealers to produce better stock at twice this price. Beautiful White Homers \$1.50 pair. Get my prices on Runts, Carneaux, Maltese Hens, and save dollars. Charles Y. Gilbert, 346 N. American St., Philadelphia, Pa. 3-7-4

**WANTED**—5,000 Common or Homer Pigeons. Pay at least 25c pair. Market Poultry Wanted. F. Gilbert 1128 Palmer St., Philadelphia, Pa. 2-7-4

## PLYMOUTH ROCKS—BARRED

**BARRED ROCK BREEDERS**. Send 50c for National Barred Rock Journal one year. The only monthly magazine issued wholly in the interests of the Grand Old Breed. W. L. Robinson, Pub., Union City, Mich. tf

## PLYMOUTH ROCKS—BUFF

**FOR SALE PRIZE WINNERS**—Solid Buff Rock, Cock and cockerels, even golden color, low combs. Quality for twenty years unsurpassed. Stock and eggs reasonable. Edgewood Farm, Ballston Lake, N. Y. tf

## PLYMOUTH ROCKS—Partridge

**AMERICA'S CHAMPION PARTRIDGE ROCKS**. See our ad on page 705 3-6-4

**BARGAINS**—Sale of Childs' Partridge Rocks. Exhibition and utility birds now ½ price. Samuel Childs, McKeesport, Pa. 3-9-4

## PLYMOUTH ROCKS—WHITE

**WHITE PLYMOUTH ROCK** breeders should secure a copy of the new Plymouth Rock Book, just out. Invaluable for beginners or experienced breeders. Edited by Wm. C. Denny. One dollar will bring a copy postpaid. Address, AMERICAN POULTRY WORLD, Buffalo, N. Y. tf

**HAVE FOR SALE** a number of breeders of quality, excellent layers. George C. Mason, Walden, New York. 2-7-4

**HOCH & FREDERICK, BOX E, CHAMBERSBURG, PA., WHITE ROCKS**. Winners at nine large shows in three states this season. Eggs for hatching and stock for sale. 6-8-4

**WRITE REEVES for WHITE ROCKS**. Prize winners, but no high prices. 635 Bradley St., Watertown, New York. tf

## PLYMOUTH ROCKS — SEVERAL VARIETIES

**EGGS FOR SALE**—\$3.00 per 15 from prize winners. Barred, Buff, Partridge, White Rocks. Thompson, Bird Bros., Fishel Strains. Satisfactory hatch guaranteed. C. McLaurin, Dillon, S. C. 3-7-4

## RHODE ISLAND REDS

**R. C. REDS** winners at Allentown, Hagerstown, Williamsport, Camden, Philadelphia. Stock, eggs and chicks for sale. Beyer & Morrison, Palmyra, Pa. tf

## RHODE ISLAND WHITES

**PEERLESS RHODE ISLAND WHITES** of the best blood lines of America. First Sheridan, Indianapolis, Pittsburgh. Stock, eggs. Free mating list. Mrs. E. W. Garver, Kempton, Ind. 6-9-4

## SUSSEX

**SUSSEX**, the best poultry and winter layers. My imported Sussex won all "blues" at Boston this winter. Stock and eggs. W. G. Brown, Ipswich, Mass. 6-8-4

**RED SUSSEX**—Eggs, balance of season. Twenty cents and one dollar each. Chestnut Red Farm, Hackensack, N. J. 3-7-4

## TURKEYS

**AMERICA'S CHAMPION GIANT BRONZE TURKEYS**. See our ad on page 705 3-6-4

## WYANDOTTES—BLACK

Boyd's Washington Strain of winning **BLACK WYANDOTTES**. Ridge Crest Farm, Paris, Md., formerly of Wash., D. C. 12-11-4

## WYANDOTTES—SILVER LACED

**SILVER WYANDOTTES** exclusively. 12 grand matings, Buffalo, Madison Square Garden and Philadelphia winners. Send for mating list. M. H. Leidy, Souderton, Pa. 6-7-4

Eggs from America's best **SILVER WYANDOTTES**. Circular of untouched photos to prove it. Eggs \$3.00 for 15; \$5.00 for 30—failing 20 strong chicks. Eggs duplicated at half price. Wood & Freeman, Fitchburg, Mass. 12-3-5

## SEVERAL BREEDS

**PARTRIDGE, GOLDEN, SILVER, BUFF and WHITE WYANDOTTES, PARTRIDGE, WHITE and BARRED ROCKS**, etc. All leading varieties, prize winning stock and eggs. List. John T. Crouthamel, Franconia, Pa. 6-8-4

**99 VARIETIES**—Poultry, Pigeons, Dogs, Ferrets. Hatching eggs a specialty. Booklet free. Description colored 60 page book 10c. J. A. Bergey, Box 53, Telford, Pa. 3-9-4

## BABY CHICKS

**GET YOUR WINTER LAYERS**. Our pullets are from all 200 egg strains bred for winter eggs. Five month old pullets delivered in September at \$8.00 per dozen if reserved now. 2 week old chicks \$2.25 per dozen—immediate shipment. 4 week old chicks, \$4.00 per dozen—immediate shipment. Barred Rocks, R. I. Reds, White Wyandottes and White Leghorns. A. Gibbins, Masonville, N. J. 3-9-4



## SPECIAL COMBINATION OFFER

## AMERICAN POULTRY WORLD

and any other paper in this  
list for

### 75 Cents

or any two papers in this list  
for only

### \$1.00

We offer you your own selection from the **16 Largest and Best Exclusive Poultry Magazines in the World**, and covering every particular section of the United States.

**Money Saved is Money Earned.** We can send you American Poultry World and any four for \$1.50, any six for \$2.00.

Poultry Keeper  
Illinois  
Western Poultry Journal  
Iowa  
Michigan Poultry Fancier  
Michigan  
American Poultry Advocate  
New York  
Poultry Culture  
Kansas  
Poultry Herald  
Minnesota  
Poultry Item  
Pennsylvania  
Poultry Success  
Ohio  
Industrious Hen  
Tennessee  
Reliable Poultry Journal  
Illinois  
Southern Poultry Magazine  
Tennessee  
Southern Poultry Journal  
Texas  
Union Poultry Journal  
Arkansas  
Western Poultry World  
Colorado  
O. K. Poultry Journal  
Oklahoma

Remit by Express, P. O. Money Order, Bank Draft, Registered Letter or Two Cent Stamps.

## American Poultry World

158 Pearl Street, BUFFALO, N. Y.

### AGENTS WANTED

**WANTED**—A representative in every town in the United States. Employ your spare time profitably. For full particulars address, **AMERICAN POULTRY WORLD**, Buffalo, N. Y.

**WILL PAY RELIABLE MAN OR WOMAN** \$12.50 to distribute 100 FREE pkgs. Perfumed Borax Soap Powder among friends. No money required. Ward Company, 224 Institute Pl., Chicago, Ill. tf

### FARMS FOR SALE

**POULTRY FARM**—Splendid 10-room modern house, all improvements, full set of poultry bldgs.; 3 acres of fruit trees. Only \$3,900, worth double. C. D. Rose Farm Agency, Trenton, N. J.

### PRINTING FOR POULTRYMEN

**GET OUR PRICES** before placing your order for printing. We print artistic letter heads, cards, envelopes, booklets, circulars, etc. Full line of up-to-date illustrations. Write today for samples and prices. **AMERICAN POULTRY WORLD**, 158 Pearl St., Buffalo, N. Y.

### WANTED

**WANTED**—Practical, experienced, market poultryman desires position on commercial or private poultry plant or established plant. Married, no children. Best references given and required. Address, C. W., care **AMERICAN POULTRY WORLD**. 3-8-4

### MISCELLANEOUS

**THE BELGIAN HARE GUIDE**—This is acknowledged to be the best and most reliable book out on the Belgian Hare industry. It contains complete and practical information on the following and many other subjects: History and Origin; The Belgian Hare for Utility; The Belgian Hare for Fancy; The Business and its Outlook; How to Begin; Houses and Hutches; Foods and Feeding; Feeding Green Stuff; Mating and Breeding; Care of the Young; Pedigrees; Score Cards and Judging; Belgian Hare Color; Dressing and Cooking; Diseases and Remedies; Preparing for Exhibition; Crating and Shipping; Caponizing; Queries and Answers; Miscellaneous; Belgian Hares vs. Poultry; The Belgian in England; The Belgian in California; Black Belgians and Flemish Giants. This book contains 48 pages and cover, is elegantly printed on good paper, illustrated with many beautiful photo-engravings and is substantially bound. Price only 25 cts. Or with the **AMERICAN POULTRY WORLD** one year, both 65 cts. Address **AMERICAN POULTRY WORLD**, 158 Pearl St., Buffalo, N. Y.

**EVERY BREEDER OF BUFF ROCKS** should procure a copy of the new Plymouth Rock Book, the most valuable breed book ever published. Profusely illustrated, contributed to by leading breeders, edited by Wm. C. Denny, 144 pages. Price \$1.00 postpaid. Address, **AMERICAN POULTRY WORLD**, Buffalo, N. Y. tf

**EVERY BREEDER OF ROSE AND SINGLE COMB** Rhode Island Reds should read the new Rhode Island Red Book, just out. Gives complete history of this popular variety. Tells how to mate and breed for best results. Edited by D. E. Hale. Fully illustrated. A standard for Red Breeders. Price per copy 75 cents postpaid. Address **AMERICAN POULTRY WORLD**, Buffalo, N. Y. tf

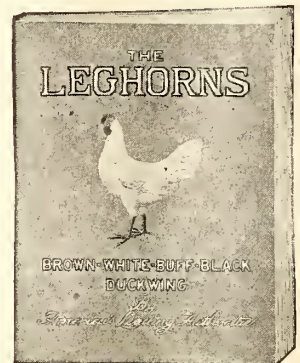
**PHOTOGRAPH and DESCRIPTION** of 2 of the most wonderful chicken eggs that were ever seen or heard of. Something worth while seeing. 10 cents each. C. E. Houseworth, Port Trevorton, Pa.

**JUST OUT**—The new Plymouth Rock Book. The most complete work on all varieties of Plymouth Rocks ever published, contains 144 pages, 3 color plates and many half-tone illustrations. Tells how to mate, breed and exhibit all varieties of this popular fowl. Edited by Wm. C. Denny, price \$1.00 postpaid. Address, **AMERICAN POULTRY WORLD**, Buffalo, N. Y. tf

# THE LEGHORNS

Standard and Non-Standard  
Varieties

Most Complete Text Book on  
the Popular Leghorn ever  
Published



**THIS NEW AND GREATLY ENLARGED EDITION**, thoroughly revised and brought down to date, consists of 144 large pages and cover. It tells how to select and mate birds for the breeding pen; how to judge Leghorns in the show room; and how to feed for heavy egg yield and fast growth. Some of the great commercial Leghorn egg farms described and illustrated.

Edited by  
**J. H. DREVENSTEDT,**

Breeder and Judge of twenty-five years' experience and member of Standard Revision Committee of 1898, 1905 and 1910.

This new book contains chapters on the following subjects:

"The Leghorn Fowl"—History of origin and development of Leghorn shape, Standard shape, etc. "Leghorn Type"—Evolution of shape, etc. "Brown Leghorns"—Color breeding, virtues and faults, progress, present Standard, etc. "White Leghorns"—All about them. "Buff Leghorns." "Black Leghorns." "Leghorns in England." "Judging Leghorns." "Commercial Leghorn Farms."—Feeding for best results.

**Two Color Plates by F. L. Sewell**

These picture ideal White Leghorns and the true colors of Brown Leghorn feathers—invaluable to Leghorn breeders.

**Price \$1 postpaid or \$1.25 including yearly subscription to AMERICAN POULTRY WORLD. Mailed FREE for four yearly subscriptions to A. P. W. at 50 cents each.**

**American Poultry World,**  
158 Pearl Street, BUFFALO, N. Y.



# INDEX TO ADVERTISERS

Abernethy, Jas.	725	Hodgson, E. F.	717	Spratts Patent	720
Aldrich Poultry Farm	711	H. O. Co.	737	Standard Bone Cutter Co.	729
Almy, F. W. C.	711	Hoff, D. C. R.	729	Steinmesch, Henry	728
Allentown Fair	735	Holmwood, Mason H.	725	Stiles, Chas. L.	707-717
American Pltry Pub. Co	722 727 736	Horseshoe Poultry Yards	707	Stillwagen, F. H.	711
American Poultry Assn.	723	Houck & Alt.	729	Stover Mfg. Co.	720
Anderson, Annesly M.	726	Howland, Stewart	726	Succulenta Co.	738
Andrews, Fred A.	721	Hummel, S. A.	720	Sunnybrook Poultry Farm	765
Andrews, J. W.	728	Humphrey & Son	720	Swarts, H. D.	738
Armer, Fred	708	Huston, Jas. T.	731	Swartout, Ross	707
Arnold, Aug. D.	719				
Ayres, Levi A.	719	Ives, Paul B.	725	Taft's Orpington Farm	728
American School of Pltry Hsbdry	705	Jacobus, M. R.	cover 2	Taylor, Henry	705
		Johnson, M. M.	737	Taylor, L. C. & Son	699
Babcock Poultry Farm	718			Taylor Instrument Co.	738
Baerman, L. D.	721	Keeler, Chas. V.	726	Terwilliger, G. W.	709
Barlow, A. G.	726	Kennedy, J. Fred N.	cover 3	Thompson, E. B.	cover 4
Bean, Frank G.	724	Kentucky Stamping Co.	720	Tilton, A. F.	730
Belle City Inc. Co.	731	Klingbeil, Paul	725	Tolman, Jos.	719
Bella Vista Farms	cover 2	Kulp, W. W.	716	Tompkins, Lester	725
Bergh, J. S.	728			Tracey, Geo. W.	717
Besuden Bros.	cover 4	Lee, Geo. H.	718	Turner, Edw. J.	708
Bird Bros.	705	Lisk, F. C.	717	Turtle Point Farm	695
Bonnie Brook Poultry Farm	cover 3	Little, Geo. W.	710	Tywacana Farms	731
Boschen, C. H.	699	Little Giant Stock Food Co.	737		
Bourne Mfg. Co.	708	Low, Dr. W. A.	705	Underhill Farms	697
Bown, Lew H.	710			United Breeders	705
Brent, C. S.	721	Manhattan Farms	cover 2	Urban Farms	715
Briggs, Edgar	719	Mann Co., F. W.	721		
Brooks, Mrs. Andrew	714	Mapleglen Farms	728	Vierheller Bros.	711
Buckeye Inc. Co.	728	Maplewood Poultry Yards	714	Vincent, Jas. H.	cover 2
Buschmann-Pierce	cover 2	Marshall & Marshall	695		
Buckeye Rubber Stamp Co.	714	Martin, John S.	699	Wahebe Bantam Yards	cover 3
Byers, C. S.	696	Martz, A. E. & Son	704	Ward, J. W. Jr.	cover 3
		McBride, J. S.	706	Warsaw Cooping Co.	715
Caines, W. J.	724	McLean, Lewis T.	729	Wayne Poultry Farms	721
Cadwallader, T.	721	McKittick, T. A.	729	Webb, Geo. W.	714
Caldwell, R. C.	708	Merihew, L. E.	720	Wellcome, F. O.	724
Canavan, P.	724	Miers, C. O.	705	Wendell Inc. Co.	717
Candee Incubator Co.	724	Miller, Frank	716	Wheeler, G. L.	724
Carbolineum Wood Preserving Co.	714	Monmouth Poultry Farms	721	White, Geo. W.	730
Cassel & Sons, F. R.	cover 2	Moore Bros.	711	Whitney & McEwan	705
Cherry Lane Farm Co.	cover 2	Morgan Bros.	725	Whyland, A. A.	730
Christie, F. W.	721	Mount Pleasant Farm	cover 2	Wiberly, W. J.	724
Condon, W. A.	728	Myers, C. N.	725	Wilburtha Farm	cover 3
Conkey, The Geo. E.	730			Williams Bros. & Brace	726
Country Gentlemen, The	720	Nescopeck Poultry Farm	710	Willow Poultry Farm	cover 3
Covert, Harry	720	New York State Fair	735	Wilson Bros.	716
Cox, A. B.	709	Noeth, Geo. E.	cover 2	Wolsieffer, J. Harry	728
Crandall, Dr. O. H.	716	Norris, Chas. J.	731	Woman's College	708
Crockford	706			Wood, Chas.	705
Crossley, J. H.	cover 2	Oak Grove Poultry Farm	705	Woodcock, S. A.	719
Cyphers Incubator Co.	733	Oculum	738	Wray Bros.	699
		O. K. Co., The	706		
Dailey, Guy	725	O. K. Stock Food Co.	737	X-Ray Inc. Co.	725
Darrow, E. B.	731	Owen Farms	713	Yama Farms	731
Dartmoor Yards	721			Young, D. W.	715
Dean, E. F.	cover 2	Parks, J. W.	cover 2		
Delano, Maurice F.	713	Parkaway Poultry & Stock Farm	716		
Deming, H. P.	728	Pasture Laboratories	738		
Dictograph Farm	715	Pemble, C. E.	714		
Dune Alpin Farms	707	Payne Bros.	cover 2		
Dutton, E. M.	721	Peer, Thos.	699		
D. & C. Lines	726	Perry, L. H.	705		
		Perfect Poultry Supply Co.	720		
Elcova Farms	721	Pilling & Son, Geo. P.	718		
Evans, Prof. John	695	Pittsburg Steel Co.	732		
Everlay Farm	699	Pittsfield Poultry Farm Co.	730		
		Potter & Co., T. F.	729		
Feathered World, The	714	Poole, Theo.	715		
Fehr & Strohl	726	Poley, John W.	709		
Fernbrook Farm	719	Posten, B. Monroe	729		
Ferris, Geo. B.	707	Prairie State Inc. Co.	715		
Fisher, A.	709	Pratt Food Co.	737		
Fiske, Harlo J.	719	Prideaux, Mrs. L. C.	715		
Fogg, N. V.	720	Prescott, F. M.	710		
Forest City Fair	735	Prudhomme, Dr. J. H.	712		
Frantz, W. C. D.	725	Pruyn, John W.	725		
French, R. T. Co.	cover 2	Purina Mills	720		
Gabriel, F. C.	711	Rancocas Poultry Farm	697		
Galen Farms	725	Red Feather Farm	711		
Globe Elevator Co.	766	Red Poultry Yards	725		
Glover, H. Clay	717	Riley, C. E.	726		
Gordon, Thos. C.	725	Riverdale Poultry Farm	710		
Gould, Harold C.	711	Rockford Incubator Co.	738		
Genesee Cooping Co.	714	Rocky Run Farm	707		
Granock Farms	706	Rose, Hugh A.	707		
		Rowan, R. A.	718		
Hall Mammoth Inc. Co.	734	Russell Farms	721		
Haddock, Stewart	709				
Halbach, H. W.	699	Sanborn, Dr. N. W.	731		
Hallenbeck, L. M.	729	Sands, Leroy	718		
Hanchett, China	725	Schenley Heights Pltry Yds.	cover 2		
Harrison, F. E.	71	Scranton, B. H.	698		
Harter, S. H.	710	Sears, Roebuck & Co.	706		
Havemeyer, Horace	725	Sessions, J. M.	707		
Hawkins, A. C.	cover 4	Sheer Co., H. M.	728		
Henderson & Billings	715	Simplex Brooder Stove Co.	699		
Heneta Bone Co.	721	Simplex Supply House	731		
Hering, Frank E.	cover 3	Slade, John	729		
Hess & Clark, Dr.	737	Smith, Miss Anna	716		
Hewke, Theo. S.	725	Smith, W. A.	726		
Highworth Poultry Yards	721	Spiller, A. P.	723		
Hill, O. L.	711				
Hilldorfer Black Minorca Farm	716				

## FOR THE EARLY SHOWS

Those wishing to secure Polish Ham-burges, Games, Spanish, Blue Andulusians, Cochins, Houdans or waterfowl for the fall fairs and early shows should write Braun Bros., proprietors Sunny Side Poultry Farms, Syracuse, N. Y. The Messrs Braun specialize in these varieties and are prepared to fit you out to win in strong competition. Better write today. First come first served.

**\* \* \* Reds! Reds! Our new book "The Rhode Island Reds" is the most complete and authentic treatise on this breed ever published. Send seventy-five cents and secure a copy \* \* \***

## YAMA FARMS

Yama Farms, Napanoch, N. Y., have inaugurated a summer sale and have included several of this season's breeding pens of both S. C. Black Minorcas and Barred Plymouth Rocks. Many of their New York State Fair winners are included in the lot. All readers interested in either variety should write for a full description of the birds they have to offer.

**\* \* \* Poultry house for all climates and all locations are fully described in "Poultry Houses and Fixtures." The most complete book ever published on poultry house architecture. Fifty cents per copy \* \* \***



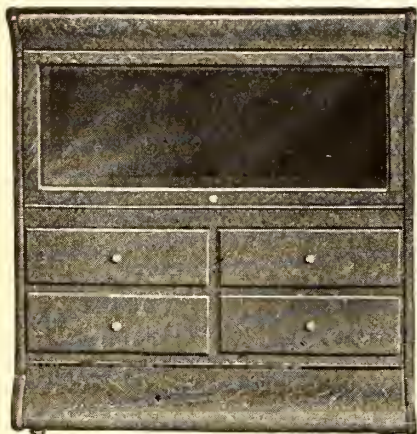


Writing Desk showing Front Closed, with Book-Case and 4 Drawers, with Base and Top Sections.  
**PRICE \$13.25.**

ship them straight from the factory to you at wholesale factory prices. They are composed in great part of

### **SOLID OAK, WITH FUMED OAK FINISH—LATEST NUT-BROWN SHADE**

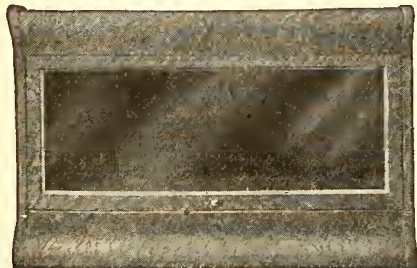
The book cases have sliding glass doors with solid oak frames which slide inside the cabinet out of the way.



1 Book-Case, 4 Drawers, and Base and Top Sections.

**PRICE \$8.00.**

The greatest bargain ever offered in well-made, high-class furniture. Not much more than half what you would have to pay any store-keeper. Don't miss this great bargain offer. Order direct from this advertisement or write for further information. Send money by Post Office Order or Express Money-Order.



1 Book-Case, with Base and Top Sections.  
**PRICE \$4.25.**

# **The New Wonder COMBINATION Writing Desk and Book Case**

**RIGHT FROM THE FACTORY TO YOUR HOME**

**AT FACTORY PRICES**

Every Man, every Woman, every Poultry-Keeper and Farmer can get along better with this new combination, than without it. Every woman will be pleased to have one in her home. It is a sign of refinement. The need of a **writing desk** and a **book-case** in the home is felt by everybody. Letters, papers and accounts, can be kept straight, and proper attention will then be given to answering letters, and doing business which otherwise might not be attended to. The lady of the house will have a place for the books which will look neater and much more attractive, than if they were lying around on the table. It makes home more pleasant and refined. You can get a desk, or book-case, or drawers or any section you please.

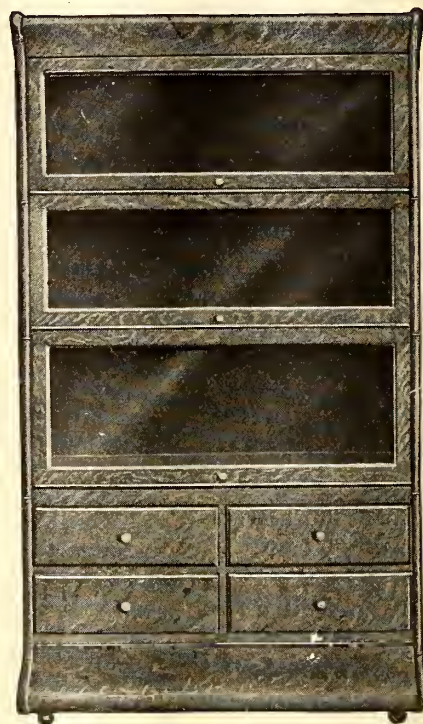
In the past, the cost of desks and book cases have been beyond the reach of many. **The New Wonder Combination** brings the price down within everybody's reach, because there are no storekeeper's profits for you to pay. We

There is "nothing that will fill a vacant place in a room more satisfactorily than this **New Wonder Cabinet**. It is sold in one or more sections—any Combination you want. You can start with one section and add to it any time. You need a Base Section and a Top Section to start with, no matter which combination you choose. The following are our **Special Wholesale Factory Prices**.

#### **Prices of Separate Sections:**

(See combinations illustrated on this page. You can also make any other combination you please. Write us for prices if you prefer any other combination besides those shown on this page.)

Base and Top Sections, complete	-	\$2.50
Single Book Case Section	-	1.75
Four Drawer Section	-	3.75
Writing Desk Section with One Book-Case	-	7.00



3 Book-Cases, 4 Drawer Section, with Base and Top Sections.

**PRICE \$11.50.**

Address Head Office or Warehouse nearest you.

## **The Direct From Factory Company**

Head Office, 11 North Market St., CHICAGO, ILL.

Central Warehouse, 154 Terrace, BUFFALO, N. Y.

Eastern Warehouse, 87 Barclay St., NEW YORK CITY



## "Wards Champion Dark Cornish"

Summer sale of breeders now on. Some exceptional bargains in imported stock. Booking orders for show birds for the early fall shows. JOHN W. WARD Box 6, PENNINGTON, N. J.



## Kennedy's

Improved Champion Strain  
Silver & Golden Campines

The fowl with sterling merits as a layer, poegre and the most in utility and exhibition strain in the world. Campineology—second edition. "The Story of the Living Egg Machines." The most costly and complete work ever attempted in Campines for ten cents.

J. FRED N. KENNEDY  
BOX 8, BIRCH CLIFF,  
ONTARIO, CANADA

## We Make a Specialty of Exhibition Stock for Fairs and Shows

SINGLE COMB WHITE LEGHORNS

SILVER CAMPINES

"FROST WHITE STRAIN"

"GREEN SHEEN STRAIN"

SWEEPSTAKE CHAMPIONS

SWEEPSTAKE CHAMPIONS

INDIANAPOLIS, 1914

COLISEUM, CHICAGO, 1913

WRITE US TODAY

WILLOWS POULTRY FARM, Frank E. Hering, Prop., Lock Box 488, SOUTH BEND, IND.



C. J. FISK, Owner WM. D. CAMPBELL, Supt.  
Box W, Trenton Junction, N. J.

THE BEST ALL-AROUND STRAINS  
OF THE BEST ALL-AROUND BREEDS

That's the enviable reputation of Willburtha and its  
COLUMBIAN WYANDOTTES  
COLUMBIAN PLYMOUTH ROCKS  
PARTRIDGE PLYMOUTH ROCKS  
S. C. BUFF & WHITE LEGHORNS

are winners at the shows and are the best profit producers in the poultry world. These birds are large, heavy, healthy and full of stamina—beautiful yet intensely practical. Write for free descriptive circular and mating list.

## JACOBUS CAMPINE EGGS NOW HALF PRICE

M. R. JACOBUS, (Original Introducer),

Box 3-W,

RIDGEFIELD, N. J.

## AMERICA'S BEST COCHIN BANTAMS

DO YOU WISH TO WIN



This Fall and Winter at America's Leading Shows if so be sure to send for our Mating List. Our mating list is the finest book ever written on Cochin Bantams and it describes the 15 Greatest Matings of this breed ever selected. Chicks hatched from eggs purchased from the "Home of America's Best Cochin Bantams" will win the leading honors at the real quality shows this season as they have for many years past.

This great strain has won at such shows as the Garden and Pittsburgh in the East, Los Angeles and Santa Ana in the West, Chicago and Cleveland in the North, Nashville and Memphis in the South, and Indianapolis, Cincinnati and numerous other prominent shows in the Central States. Why be in doubt where to obtain Stock or Eggs if you want to win the Blues and Specials. If in need of breeders we still have a few very choice specimens that will produce the quality you have been longing for. Now do not hesitate any longer but come to "The Home of America's Best Cochin Bantams" if it is your intention to win. Send for the finest mating list ever issued by any Bantam Breeder. Remember it describes the Greatest Cochin Bantam Matings ever selected.

WAHEBE BANTAM YARDS,

Box 13-R,

Evanston Station,

CINCINNATI, OHIO

## BONNIE BROOK

## S. C. WHITE LEGHORNS

We have had such truly wonderful success in hatching and rearing Bonnie Brook S. C. White Leghorns this season that we wish it were possible for every reader of A. P. W. to visit our farm and see the 6000 vigorous and healthy chicks growing like weeds on our unlimited free range plan. That is not all—we have what we believe to be one of the most up to date plants in America, also 4000 S. C. White Leghorn Hens—the Bonnie Brook kind, vigorous, healthy, hustling layers, and winners too. Look up our record at Boston last winter. We cannot describe Bonnie Brook Farm in all its completeness that is why we wish you could visit it and see for yourself.

4000—S. C. WHITE LEGHORN HENS—4000

6000—S. C. WHITE LEGHORN CHICKS—6000

We will make attractive prices on either. May we hear from you. Our handsome 44 page catalogue is free. It contains illustrations of prize winners, houses and and breeding stock. May we send you a copy.

## BONNIE BROOK POULTRY FARM,

Box 90-A,

SARATOGA SPRINGS, N. Y.





# E. B. Thompson's Imperial Ringlet Barred Plymouth Rocks

## BARGAIN SALE FOR 1914

Type never told a story of greater values and more sweeping price reductions than in my Special Sale List which is now ready for mailing. This is an opportunity to buy the finest quality Barred Rocks ever offered in America at such splendid Bargain Prices.

### This Is America's Leading Bargain Sale

It is unrivalled in high quality and low prices. This establishment is the largest devoted entirely to the breeding of High Quality Barred Rocks in all America. You can secure Madison Square Garden, New York winners, and sons, brothers, sisters and daughters of New York winners and birds of this richest New York prize winning blood at the decided Bargain Prices.

### In This Special Sale List

are listed the finest show birds, the finest breeders in single birds, pairs, trios and pens that I have ever offered and at the rarest bargain prices. There are lots to meet the needs of all.

### The Imperial Ringlets

are the proud product of more than a quarter of a century of Barred Rock breeding. They have the most fashionable barring and even blue color of the present day. At the last Madison Square Garden, New York, Show, 1913-1914, my Imperial "Ringlets" won three times as many First Prizes as any competitor. More First, Regular and Special Prizes than won by any exhibitor of any breed. These include Champion Male, 1st, 2nd, 3rd, 4th and 5th Prizes on cockerels—every regular and special prize offered—an achievement unequalled in the history of Madison Square Garden.

It will be to your best interest to have this Special Sale List and take advantage of this opportunity to secure "Ringlets" at the cut down Bargain Prices. Whatever may be your wants in Barred Plymouth Rocks you will find it in my Special Sale List at Bargain Figures. The List will be mailed promptly upon request. Elegant 70-page catalogue upon application. EGGS from the finest exhibition matings in the world \$10 per Setting, four settings \$35, 100 eggs \$60—One-half these prices after June 10th.

*E. B. Thompson*

Lock Box 330,

AMENIA, N. Y.

# HAWKINS' ROYAL BLUE BARRED ROCKS

have for years produced the winners at the World's Greatest Shows, and my unparalleled record at the two leading exhibitions, east and west,

## NEW YORK AND CHICAGO

make my Royal Blue Barred Rocks the

### CHAMPIONS OF THE EAST AND WEST

#### NEW YORK, 1912

6 out of 8 prizes on cockerels, including 1st and sweepstakes, best cockerel in show. A World's Record.

#### CHICAGO, 1912

Four 1sts, sweepstakes, championship for best display Barred Rocks, 400 birds in competition.

#### CHICAGO, 1913

Six 1sts, sweepstakes for best display, every special offered on this variety, 250 birds competing.

I sell eggs from the World's best matings at \$10 per 15, \$18 per 30, \$25 per 40, \$50 for 100. 2000 exhibition and breeding birds for sale. Finely illustrated catalog of the champions FREE.

**FREE  
CATALOG**

**A. C. HAWKINS**  
LOCK BOX 30 LANCASTER, MASS.



## CHAMPION BUFF WYANDOTTES

Are Not a Conglomeration of several different strains. They are the *Only Strain in Existence* that has been bred in line for twenty-five years.

All Others contain *Champion Blood* or *Could Be Improved* by Introduction of same. Champions have won Five Times as many Prizes as All Combined.

They are the Greatest Egg Producing Strain. Our Noted Winners are also our Very Best Layers.

### Get Your Eggs Now

Remember our First, Second and Third Madison Square Garden winners were June hatched chicks.

This Adv. Mailed to us, entitles the sender to a \$7.50 discount on a \$15.00 setting of eggs. \$5.00 discount on a \$10.00 setting of eggs and \$2.00 discount on a \$5.00 setting. We replace every infertile egg Free. Send for illustrated 1914 mating list.

BESUDEN BROS., Evanston Sta., Cincinnati, Ohio  
R. W. STURDIVANT, Mgr. Box 14 W.

## PURITAN PARTRIDGE ROCKS

### QUALITY FLOCK OF AMERICA

Have been the great winners at the leading shows the past few years while in competition with all America's Best Breeders. At such shows as the Garden, New York Expo, Chicago, Indianapolis, Cincinnati, Louisville and Illinois State Fair. Winning at these America's Foremost Shows, 24 Firsts, while all competitors combined won 11 Firsts, giving Puritans More Than Twice as many Firsts as All Competitors Combined.

These marvelous victories at the leading shows and under judges of national reputation certainly stamped PURITANS as the great QUALITY FLOCK of All America, and should convince you beyond all doubt as to where to buy eggs if you want the best Partridge Rocks in existence.

Our matings this season far excell even our grand pens last year and surely will produce specimens of highest merit and birds that can and will win the coveted prizes in any show no matter how large or small. Many of our most constant winners last Winter were hatched during May or June, for Puritans are fast vigorous growers and fully develop in five months making late hatched chicks just in their bloom for the great Winter Shows where competition is always the keenest.

Our beautiful illustrated mating list will further convince you of the superb quality of Puritan Partridge Rocks. It is free and will be gladly mailed you upon request.

BESUDEN BROS., Box 14W, Evanston Sta., Cincinnati, Ohio